NACOmatic

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INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ABERDEEN, SD
ABERDEEN RGNL ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
RNAV (GPS) Rwy 35
VOR Rwy 31
VOR/DME Rwy 13
NA when local weather not available.

ALBERT LEA, MN
ALBERT LEA MUNI ..... **RNAV (GPS) Rwy 16**
NA when local weather not available.

ALEXANDRIA, MN
CHANDLER FIELD ..... **RNAV (GPS) Rwy 22**
RNAV (GPS) Rwy 31
NA when local weather not available.

AUSTIN, MN
AUSTIN MUNI ..... **RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
VOR/DME-A
NA when local weather not available.

BAUDETTE, MN
BAUDETTE INTL ..... **RNAV (GPS) Rwy 12[1]**
RNAV (GPS) Rwy 30[1]
VOR/DME Rwy 12
VOR Rwy 30
Category C, 800-2¼; Category D, 800-2½.
[1]NA when local weather not available.

BEMIDJI, MN
BEMIDJI RGNL ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 31
NA when local weather not available.

BENSON, MN
BENSON MUNI ..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

NAME ALTERNATE MINIMUMS

BISMARCK, ND
BISMARCK MUNI ..... **ILS or LOC Rwy 13[1]**
ILS or LOC Rwy 31[2]
RADAR-1
NA when control tower closed.
[1]ILS, Categories A, B, C, D, E, 700-2. LOC, NA.
[2]ILS, Category D, 700-2. LOC, NA.

BRAINERD, MN
BRAINERD LAKES RGNL . **ILS or LOC Rwy 23**
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy 30
RNAV (GPS) Rwy 34
NA when local weather not available.

BROOKINGS, SD
BROOKINGS RGNL ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

CANBY, MN
MYERS FIELD ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

CLOQUET, MN
CLOQUET CARLTON
COUNTY ..... **RNAV (GPS) Rwy 35**
NA when local weather not available.

COOK, MN
COOK MUNI ..... **RNAV (GPS) Rwy 31**
NA when local weather not available.

CROOKSTON, MN
CROOKSTON MUNI-
KIRKWOOD FIELD ..... **RNAV (GPS) Rwy 13[1]**
RNAV (GPS) Rwy 31[1]
VOR Rwy 31[2]
[1]NA when local weather not available.
[2]Category A, B, 900-2; Category C, 900-2¼.

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NAME ALTERNATE MINIMUMS

DETROIT LAKES, MN

DETROIT LAKES-
WETHING FIELD ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.
Category D, 800-2¼.

DEVILS LAKE, ND

DEVILS LAKE RGNL ..... **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 21
RNAV (GPS) Rwy 31
VOR Rwy 3[1]
VOR Rwy 21[2]
NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[2]Category C, 800-2¼, Category D, 800-2½.

DICKINSON, ND

DICKINSON-THEODORE
ROOSEVELT RGNL ..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR-A
NA when local weather not available.

DODGE CENTER, MN

DODGE CENTER ..... **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
VOR-A
NA when local weather not available.

DULUTH, MN

DULUTH INTL ..... **COPTER ILS Rwy 9[1]**
ILS or LOC Rwy 9[2]
ILS or LOC Rwy 27[3]
VOR or TACAN Rwy 3[4]
[1]LOC, NA.
[2]ILS, Category E, 900-2½; LOC, Category E, 800-2½.
[3]ILS, Category E, 700-2¼; LOC, Category E, 800-2¼.
[4]Category E, 800-2¼.

EVELETH, MN

EVELETH-VIRGINIA
MUNI ..... **VOR/DME or GPS-A**
Category C, 800-2¼; Category D,800-2½.

FAIRBAULT, MN

FAIRBAULT MUNI ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
VOR-A
NA when local weather not available.

NAME ALTERNATE MINIMUMS

FAIRMONT, MN

FAIRMONT MUNI ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR Rwy 13
VOR Rwy 31
NA when local weather not available.

FARGO, ND

HECTOR INTL ..... **ILS or LOC Rwy 18[1]**
ILS or LOC Rwy 36[1]
RNAV (GPS) Rwy 18[2]
RNAV (GPS) Rwy 36[2]
VOR/DME or TACAN Rwy 18[2]
VOR or TACAN Rwy 36[3]
[1]ILS, Category E, 700-2¼. LOC, Category E, 800-2¼.
[2]Category E, 800-2¼.
[3]Category D, 800-2¼, Category E, 800-2½.

FERGUS FALLS, MN

FERGUS FALLS MUNI-EINAR
MICKELSON FIELD ..... **ILS or LOC Rwy 31[1]**
NDB Rwy 31[2]
RNAV (GPS) Rwy 31[2]
RNAV (GPS) Rwy 35
NA when local weather not available.
[1]ILS, Category D, 700-2¼. LOC, Category D, 800-2¼.
[2]Category D, 800-2¼.

GLENCOE, MN

GLENCOE MUNI ..... **RNAV (GPS) Rwy 31**
NA when local weather not available.

GRAND FORKS, ND

GRAND FORKS INTL ... **ILS or LOC Rwy 35L[12]**
LOC BC Rwy 17R[13]
RNAV (GPS) Rwy 9L[3]
RNAV (GPS) Rwy 17R[3]
RNAV (GPS) Rwy 27R[3]
RNAV (GPS) Rwy 35L[3]
VOR Rwy 17R[3]
VOR Rwy 35L[3]
[1]NA when control tower closed.
[2]ILS, Category E, 700-2½. LOC, Category E, 800-2½.
[3]NA when local weather not available.

GRAND MARAIS, MN

GRAND MARAIS/
COOK COUNTY ..... **RNAV (GPS) Rwy 27**
NA when local weather not available.

GRAND RAPIDS, MN

GRAND RAPIDS/ITASCA COUNTY-GORDON
NEWSTROM FIELD ..... **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
VOR Rwy 34
NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRANITE FALLS, MN

GRANITE FALLS MUNI/LENZEN-ROE MEMORIAL FIELD ..... **RNAV (GPS) Rwy 33**
NA when local weather not available.

HETTINGER, ND

HETTINGER MUNI ..... **RNAV (GPS) Rwy 30**
NA when local weather not available.
Category D, 800-2¼.

HIBBING, MN

RANGE RGNL ..... **ILS OR LOC/DME Rwy 13[1]**
VOR Rwy 13[2]
[1]ILS,Categories A, B, C, D, 800-2.
[2]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾; ILS, 700-2.

HURON, SD

HURON RGNL ..... **ILS or LOC Rwy 12[12]**
LOC/DME BC Rwy 30[23]
RNAV (GPS) Rwy 12[23]
RNAV (GPS) Rwy 30[23]
VOR Rwy 12[23]
[1]ILS, Category D, 700-2¼. LOC, Category D, 800-2¼.
[2]NA when local weather not available.
[3]Category D, 800-2¼.

INTERNATIONAL FALLS, MN

FALLS INTL ..... **COPTER ILS or LOC Rwy 31[1]**
ILS or LOC/DME Rwy 13,700-2[2]
ILS or LOC Rwy 31[2]
RNAV (GPS) Rwy 13[2]
RNAV (GPS) Rwy 31[2]
VOR Rwy 13[23]
VOR/DME Rwy 31[2]
[1]LOC, NA; ILS, NA when local weather not available.
[2]NA when local weather not available.
[3]Category D, 800-2¼.

JACKSON, MN

JACKSON MUNI ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NDB Rwy 13
NA when local weather not available.

JAMESTOWN, ND

JAMESTOWN RGNL ..... **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 31
VOR Rwy 31
NA when local weather not available.

NAME ALTERNATE MINIMUMS

LANGDON, ND

ROBERTSON FIELD ..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

LITCHFIELD, MN

LITCHFIELD MUNI ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR-A
NA when local weather not available.
Category D, 800-2¼.

MANKATO, MN

MANKATO RGNL ..... **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 33
VOR Rwy 15
VOR Rwy 33
NA when local weather not available.

MAPLE LAKE, MN

MAPLE LAKE MUNI ..... **VOR-A**
NA when local weather not available.

MARSHALL, MN

SOUTHWEST MINNESOTA RGNL MARSHALL/ RYAN FIELD ..... **RNAV (GPS) Rwy 12**
VOR Rwy 12
NA when local weather not available.

MINNEAPOLIS, MN

AIRLAKE ..... **RNAV (GPS) Rwy 12**
VOR Rwy 12[1]
NA when local weather not available.
[1]Category D, 800-2¼.

ANOKA COUNTY-BLAINE AIRPORT (JANES FIELD) ..... **ILS or LOC/DME Rwy 27**
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 27
VOR Rwy 9
VOR/DME Rwy 27
NA when local weather not available.

CRYSTAL ..... **RNAV (GPS) Rwy 14L**
NA when local weather not available.

FLYING CLOUD ..... **COPTER ILS or LOC Rwy 10R[1]**
ILS or LOC Rwy 10R[1]
RNAV (GPS) Rwy 10L
RNAV (GPS) Rwy 10R
RNAV (GPS) Rwy 28R
VOR Rwy 10R
VOR/DME Rwy 36
NA when local weather not available.
[1]NA when control tower closed.

NAME ALTERNATE MINIMUMS

MINNEAPOLIS, MN (CON'T)

MINNEAPOLIS-ST. PAUL INTL/
WOLD CHAMBERLAIN . **ILS or LOC Rwy 12L[2]**
ILS or LOC Rwy 12R[1]
ILS or LOC Rwy 30L[1]
ILS or LOC Rwy 30R[2]
ILS or LOC Rwy 35[3]
LOC Rwy 4[4]
LOC Rwy 22[4]
RNAV (GPS) Rwy 4[4]
RNAV (GPS) Rwy 12L[5]
RNAV (GPS) Rwy 12R[4]
RNAV (GPS) Rwy 22[4]
RNAV (GPS) Rwy 30L[4]
RNAV (GPS) Rwy 30R[4]
RNAV (GPS) Z Rwy 35[6]

[1]ILS, Category D, 700-2; Category E, 900-3. LOC, Category E, 900-3.
[2]ILS, Categories A, B, C, 700-2; Category D, 700-2¼; Category E, 900-3. LOC, Category D, 800-2¼; Category E, 900-3.
[3]ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 800-2½; Category E, 900-3. LOC, Category C, 800-2¼; Category D, 800-2½; Category E, 900-3.
[4]Category E, 900-3.
[5]Category D, 800-2¼; Cateogry E, 900-3.
[6]Category D, 800-2¼.

MINOT, ND

MINOT INTL ..... **ILS or LOC Rwy 31[12]**
LOC/DME BC Rwy 13[1]
RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 26
RNAV (GPS) Rwy 31
VOR Rwy 8[3]
VOR Rwy 26[4]

NA when local weather not available.
[1]NA when tower closed.
[2]Category E, 1100-3.
[3]Categories A, B, 1100-2; Categories C, D, 1100-3.
[4]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

MITCHELL, SD

MITCHELL MUNI ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
VOR Rwy 12
VOR Rwy 30[1]

NA when local weather not available.
[1]Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS

MOBRIDGE, SD

MOBRIDGE MUNI ..... **RNAV (GPS) Rwy 12[1]**
RNAV (GPS) Rwy 30[2]

NA when local weather not available
[1]Category D, 900-2¾.
[2]Category C, 800-2¼; Category D, 900-2¾.

MORRIS, MN

MORRIS MUNI-CHARLIE
SCHMIDT FLD ..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32

NA when local weather not available.

PINE RIDGE, SD

PINE RIDGE ..... **RNAV (GPS) Rwy 30**

NA when local weather not available.
Categories A, B, 900-2.

PIPESTONE, MN

PIPESTONE MUNI ..... **NDB Rwy 36**
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.

PRESTON, MN

FILLMORE COUNTY ..... **RNAV (GPS) Rwy 29**

NA when local weather not available.

RAPID CITY, SD

RAPID CITY RGNL ..... **ILS or LOC Rwy 32[1]**
RNAV (GPS) Rwy 14[2]
RNAV (GPS) Rwy 32[2]
VOR or TACAN Rwy 14[2]
VOR or TACAN Rwy 32[2]

NA when local weather not available.
[1]ILS, Category D, 700-2; Category E, 800-2¾. LOC, Category E, 800-2¾.
[2]Category E, 800-2¼.

RED WING, MN

RED WING RGNL ..... **RNAV (GPS) Rwy 27**

NA when local weather not available.
Categories A, B, 1100-2; Category C, 1100-3.

REDWOOD FALLS, MN

REDWOOD FALLS
MUNI ..... **RNAV (GPS) Rwy 30**
VOR-A

Category D, 800-2¼.
NA when local weather not available.

ROCHESTER, MN

ROCHESTER INTL ..... **ILS or LOC Rwy 13**
ILS or LOC Rwy 31
COPTER ILS or LOC Rwy 31

NA when control tower closed.

NAME ALTERNATE MINIMUMS

ROSEAU, MN

ROSEAU MUNI/
RUDY BILLBERG FIELD . **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.

ST. CLOUD, MN

ST. CLOUD RGNL . **ILS or LOC/DME Rwy 13[123]**
RNAV (GPS) Rwy 5[1]
RNAV (GPS) Rwy 13[1]
RNAV (GPS) Rwy 23[1]
RNAV (GPS) Rwy 31[1]
VOR/DME Rwy 13[12]
VOR Rwy 31[12]
[1]NA when local weather not available.
[2]NA when control tower closed.
[3]ILS, Categories A, B, C, D, 700-2.

ST. PAUL, MN

ST. PAUL DOWNTOWN HOLMAN
FIELD ..... **ILS or LOC Rwy 14[12]**
ILS or LOC Rwy 32[13]
RNAV (GPS) Rwy 14[3]
RNAV (GPS) Rwy 32[4]
[1]NA when local weather not available.
[2]ILS, LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[4]Categories A, B, C, 900-2½; Category D, 900-2¾.

SIOUX FALLS, SD

JOE FOSS FIELD ..... **ILS or LOC Rwy 3[12]**
ILS or LOC Rwy 21[1]
RADAR-1[3]
VOR or TACAN Rwy 15[4]
VOR/DME or TACAN Rwy 33[3]
[1]NA when control tower closed.
[2]LOC, NA.
[3]Category E, 800-2¾.
[4]Category E, 900-3.

SOUTH ST. PAUL, MN

SOUTH ST. PAUL MUNI-RICHARD E
FLEMING FIELD ..... **RNAV (GPS) Rwy 34**
Category D, 800-2¼.
NA when local weather not available.

NAME ALTERNATE MINIMUMS

THIEF RIVER FALLS, MN

THIEF RIVER
FALLS RGNL ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR Rwy 13
NA when local weather not available.

VERMILLION, SD

HAROLD DAVIDSON
FIELD ..... **RNAV (GPS) Rwy 30**
NA when local weather not available.

WARROAD, MN

WARROAD INTL
MEMORIAL ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.

WASECA, MN

WASECA MUNI ..... **RNAV (GPS) Rwy 15**
NA when local weather not available.

WATERTOWN, SD

WATERTOWN RGNL ..... **LOC/DME BC Rwy 17**
NDB Rwy 35
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 30
RNAV (GPS) Rwy 35
VOR or TACAN Rwy 17
NA when local weather not available.

WILLISTON, ND

SLOULIN FIELD INTL ..... **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
VOR Rwy 11
VOR/DME Rwy 29
NA when local weather not available.

WILLMAR, MN

WILLMAR MUNI-JOHN
L RICE FIELD ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR Rwy 13
VOR Rwy 31[1]
NA when local weather not available.
[1]Category D, 800-2¼.

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NAME ALTERNATE MINIMUMS

WINDOM, MN

WINDOM MUNI ..... **NDB Rwy 17**
Category C, 800-2¼.

WINNER, SD

WINNER RGNL ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR-A
NA when local weather not available.

WORTHINGTON, MN

WORTHINGTON
MUNI ..... **VOR or GPS Rwy 11**
Category D, 800-2¼.

YANKTON, SD

CHAN GURNEY MUNI ... **RNAV (GPS) Rwy 13[1]**
VOR Rwy 13[1]
VOR Rwy 31[2]
[1]NA when local weather not available.
[2]Category D, 800-2¼.

BISMARCK, ND
Amdt. 3B, AUG 26, 2010 (FAA) ELEV **1661**

BISMARCK MUNI
RADAR - 126.3 298.9

	RWY GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	13	AB	**2100**-1	445	(500-1)	C	**2100**-1¼	445	(500-1¼)
		D	**2100**-1½	445	(500-1½)				
	31	AB	**2100**/24	455	(500-½)	C	**2100**/40	455	(500-¾)
		D	**2100**/50	455	(500-1)				
	21	AB	**2120**-1	459	(500-1)	C	**2120**-1¼	459	(500-1¼)
		D	**2120**-1½	459	(500-1½)				
	3	AB	**2120**-1	459	(500-1)	C	**2120**-1¼	459	(500-1¼)
		D	**2120**-1½	459	(500-1½)				
CIRCLING		A	**2180**-1	519	(600-1)	B	**2220**-1	539	(600-1)
		C	**2220**-1½	559	(600-1½)	D	**2280**-2	619	(700-2)

Inoperative table does not apply to MALS Rwy 13.

DULUTH, MN
Amdt. 20, OCT 7, 1999 (FAA) ELEV **1428**

DULUTH INTL
RADAR - 125.45 255.9

	RWY GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	3	ABC	**1820**-1	400	(400-1)	D	**1820**-1¼	400	(400-1¼)
		E	**1820**-1½	400	(400-1½)				
	27	AB	**1860**/24	439	(500-½)	C	**1860**/40	439	(500-¾)
		DE	**1860**/50	439	(500-1)				
	21	AB	**1860**-1	440	(500-1)	C	**1860**-1¼	440	(500-1¼)
		DE	**1860**-1½	440	(500-1½)				
	9	AB	**1880**/24	452	(500-½)	C	**1880**/40	452	(500-¾)
		DE	**1880**/50	452	(500-1)				
CIRCLING		AB	**1920**-1	492	(500-1)	C	**1920**-1½	492	(500-1½)
		DE	**1980**-2	552	(600-2)				

Category E circling NA southeast of Rwys 3 and 27.

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ELLSWORTH AFB (KRCA) (Rapid City), SD (Amdt 1, 10294 USAF) ELEV **3276**

RADAR - (E) 119.5 259.1[1]

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	13[2]		AB	**3820**/40	544	(600-¾)
			C	**3820**/50	544	(600-1)
			D	**3820**/60	544	(600-1¼)
			E	**3820**-1½	544	(600-1½)
	31[2]		AB	**3820**/40	628	(600-¾)
			C	**3820**/60	628	(600-1¼)
			D	**3820**-1½	628	(600-1½)
			E	**3820**-1¾	628	(600-1¾)
CIR	All Rwy[3]		A	**3860**-1¼	584	(600-1¼)
			B	**3880**-1¼	604	(700-1¼)
			C	**3880**-1¾	604	(700-1¾)
			D	**3880**-2	604	(700-2)
			E	**4040**-2¾	764	(800-2¾)

[1]Ltd ASR apch avbl 1300-0500Z++ Mon-Fri. [2]When ALS inop, increase CAT AB RVR to 60 and vis to 1¼, increase CAT CDE vis ½ mile. [3]CAT E circling restricted to 28th BW aircraft only; 28th BW aircraft will remain within class D airspace.

MANDAN, ND Amdt. 4, NOV 09, 1995 (FAA) ELEV **1942**

MANDAN MUNI

RADAR - 126.3 298.9 ⚠ NA

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAT/ HAA	CEIL-VIS
ASR	31		AB	**2360**-1	418	(500-1)	CD	**2360**-1¼	418	(500-1¼)
	13		AB	**2460**-1	520	(600-1)	C	**2460**-1½	520	(600-1½)
			D	**2460**-1¾	520	(600-1¾)				
CIRCLING			A	**2460**-1	518	(600-1)	B	**2500**-1	558	(600-1)
			C	**2500**-1½	558	(600-1½)	D	**2500**-2	558	(600-2)

Use Bismarck altimeter setting.
When Bismarck control tower closed, ASR NA.

ROCHESTER, MN
Amdt. 8, JAN 15, 2009 (FAA) ELEV **1317**

ROCHESTER INTL
RADAR - 119.8 251.125

	RWY GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	2	ABC	**1680**-1	363	(400-1)	D	**1680**-1¼	363	(400-1¼)
	13	ABC	**1640**/24	360	(400-½)	D	**1640**/50	360	(400-1)
	20	ABC	**1660**-1	356	(400-1)	D	**1660**-1¼	356	(400-1¼)
	31	ABC	**1660**/24	356	(400-½)	D	**1660**/50	356	(400-1)
CIRCLING		A	**1720**-1	403	(500-1)	B	**1780**-1	463	(500-1)
		C	**1780**-1½	463	(500-1½)	D	**1880**-2	563	(600-2)

When control tower closed, procedure NA. For inoperative MALSR, increase S-13 and S-31 Cat D visibility to RVR 6000. Visibility reduction by helicopters NA Rwy 2-20.

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SIOUX FALLS, SD
Amdt. 10A, OCT 3,2003 (FAA) ELEV **1429**

JOE FOSS FIELD
RADAR - 125.8 353.6

	RWY GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	3	AB	**1940**/24	517	(600-½)	C	**1940**/50	517	(600-1)
		DE	**1940**/60	517	(600-1¼)				
	33	AB	**1920**-1	497	(500-1)	C	**1920**-1¼	497	(500-1¼)
		D	**1920**-1½	497	(500-1½)	E	**1920**-1¾	497	(500-1¾)
	21	AB	**1960**/24	531	(600-½)	C	**1960**/50	531	(600-1)
		D	**1960**/60	531	(600-1¼)	E	**1960**-1½	531	(600-1½)
	15	AB	**1960**-1	534	(600-1)	C	**1960**-1½	534	(600-1½)
		D	**1960**-1¾	534	(600-1¾)	E	**1960**-2	534	(600-2)
CIRCLING		AB	**1960**-1	531	(600-1)	C	**1960**-1½	531	(600-1½)
		D	**2040**-2	611	(700-2)	E	**2300**-3	871	(900-3)

When control tower closed, procedure not authorized.
Category E S-3 visibility increased 1¾ mile for inoperative MALSR.
Category E S-21 visibility increased to 2 miles for inoperative MALSR.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude , and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

ABERDEEN, SD

ABERDEEN RGNL (ABR)
ORIG 09239 (FAA)
NOTE: **Rwy 17,** trees 1138' from DER, 432' right of centerline, 41' AGL/1336' MSL. **Rwy 31,** multiple trees beginning 1391' from DER, 326' left of centerline, up to 65' AGL/1360' MSL.

AITKIN, MN

AITKIN MUNI-STEVE KURTZ FIELD (AIT)
AMDT 2 96172 (FAA)
TAKE-OFF MINIMUMS: **Rwys 8, 26,** 300-1. **Rwy 16,** 300-1 or std. with a min climb of 400' per NM to 1500.
DEPARTURE PROCEDURE: **Rwys 16, 26,** climb runway heading to 1700 before turning.

ALBERT LEA, MN

ALBERT LEA MUNI (AEL)
ORIG 85241 (FAA)
DEPARTURE PROCEDURE: **Rwys 16, 22,** climb runway heading to 1800 before turning on course.

ALEXANDRIA, MN

CHANDLER FIELD (AXN)
DEPARTURE PROCEDURE: **Rwys 4, 13, 22,** when weather is below 200-1, climb runway heading to 1800 before turning.

NAME TAKE-OFF MINIMUMS

APPLETON, MN

APPLETON MUNI (AQP)
ORIG-A 10126 (FAA)
DEPARTURE PROCEDURE: **Rwy 4,** climb heading 039° to 2000 before turning right. **Rwy 13,** climb heading 130° to 2500 before turning right. **Rwy 22,** climb heading 219° to 2400 before turning left. **Rwy 31,** climb heading 300° to 2000 before turning left.
NOTE: **Rwy 13,** trees beginning 91' from DER, 464' left of centerline, up to 100' AGL/1134' MSL. Trees beginning 576' from DER, 388' right of centerline, up to 100' AGL/1120' MSL. Tower 2.3 NM from DER, 2.4 right of centerline, 1283' AGL/2318' MSL.

AUSTIN, MN

AUSTIN MUNI (AUM)
ORIG 08045 (FAA)
NOTE: **Rwy 17,** Multiple trees beginning 809' from departure end of runway, 663' right of centerline, up to 61' AGL/1285' MSL. **Rwy 35,** Tree 1380' from departure end of runway, 484' right of centerline, 100' AGL/1314' MSL.

BAUDETTE, MN
BAUDETTE INTL (BDE)
AMDT 1 10154 (FAA)
DEPARTURE PROCEDURE: **Rwy 12,** climb heading 117° to 1700 before turning northbound.
NOTE: **Rwy 12,** trees, pipes, and markers beginning 61' from DER, 354' right of centerline, up to 100' AGL/1184' MSL. Trees beginning 593' from DER, 138' left of centerline, up to 21' AGL/1100' MSL. Rod on OL tank 4132' from DER, 1233' right of centerline, 120' AGL/1204' MSL. **Rwy 30,** trees beginning 15' from DER, 348' right of centerline, 12' AGL/1096' MSL. Trees beginning 2036' from DER, 532' left of centerline, 64' AGL/1143' MSL.

BELLE FOURCHE, SD
BELLE FOURCHE MUNI (EFC)
AMDT 2 09015 (FAA)
TAKE-OFF MINIMUMS: **Rwys 18,36,** NA. **Rwy 14,** std. w/ min. climb of 240' per NM to 9000 or 1400-3 for climb in visual conditions. **Rwy 32,** std. w/ min. climb of 413' per NM to 3900.
DEPARTURE PROCEDURE: **Rwy 14,** for climb in visual conditions: cross Belle Fourche Muni airport at or above 4400 MSL before proceeding on course. **Rwy 32,** climb heading 321° to 3900 before proceeding southbound.
NOTE: **Rwy 14,** trees 651' from departure end of runway, 547' left of centerline, up to 20' AGL/3299' MSL. **Rwy 32,** trees 857' from departure end of runway, 150' left of centerline, up to 20' AGL/3199' MSL. Trees 3880' from departure end of runway, 966' right of centerline, up to 20' AGL/3289' MSL.

BEMIDJI, MN
BEMIDJI RGNL (BJI)
AMDT 3 08213 (FAA)
NOTE: **Rwy 7,** vegetation beginning 859' from departure end of runway, 544' right of centerline, up to 62' AGL/1442' MSL. Vegetation beginning 1404' from departure end of runway, 683' left of centerline, up to 44' AGL/1424' MSL. **Rwy 13,** vehicle on road, 541' from departure end of runway, 525' right of centerline, 15' AGL/1398' MSL. **Rwy 25,** poles beginning 1337' from departure end of runway, 205' right of ceterline up to 61' AGL/1445' MSL. Trees beginning 1414' from departure end of runway, 254' left of centerline, up to 57' AGL/1441' MSL. Tree 1406' from departure end of runway, 233' right of centerline, 53' AGL/1437' MSL.

BENSON, MN
BENSON MUNI (BBB)
AMDT 1 09127 (FAA)
NOTE: **Rwy 14,** numerous trees beginning 838' from DER, 246' right of centerline, up to 33' AGL/1087' MSL. Numerous trees beginning 1232' from DER, 64' left of centerline, up to 69' AGL/1108' MSL. Sign 206' from DER, 198' left of centerline, 19' AGL/1044' MSL. Tower 4884' from DER, 274' right of centerline, 126' AGL/1161' MSL. **Rwy 32,** Tree 2380' from DER, 646' left of centerline, 68' AGL/1107' MSL. Multiple fences beginning 13' from DER, 361' left of centerline, up to 8' AGL/1043' MSL.

BIGFORK, MN
BIGFORK MUNI (FOZ)
ORIG -A 10126 (FAA)
TAKE-OFF MINIMUMS: **Rwy 15,** 400-1 or std. with a min. climb of 332' per NM to 1900.

BISMARCK, ND
BISMARCK MUNI (BIS)
AMDT 7 01137 (FAA)
DEPARTURE PROCEDURE: **Rwys 3, 31,** climb runway heading to 2500 before proceeding on course. **Rwys 13, 21**, climb runway heading to 3800 before proceeding south.

BOTTINEAU, ND
BOTTINEAU MUNI (D09)
AMDT 1 10154 (FAA)
TAKE-OFF MINIMUMS: **Rwys 3, 21,** NA.
DEPARTURE PROCEDURE: **Rwy 13,** climb heading 127° to 2200 before turning left. **Rwy 31,** climb heading 307° to 2600 before turning right.
NOTE: **Rwy 31,** street light 116' from DER, 474' left of centerline, 16' AGL/1700' MSL.

BRAINERD, MN
BRAINERD LAKES RGNL (BRD)
AMDT 5A 10126 (FAA)
NOTE: **Rwy 12,** multiple trees beginning 165' from DER, 417' left of centerline, up to 78' AGL/1279' MSL. Multiple trees and vehicle on road beginning 304' from DER, 206' right of centerline, up to 66' AGL/1277' MSL. **Rwy 16,** multiple trees beginning 1830' from DER, 749' left of centerline, up to 74' AGL/1314' MSL. **Rwy 23,** multiple trees beginning 1495' from DER, 179' left of centerline, up to 48' AGL/1285' MSL. Tree 2437' from DER, 716' right of centerline, 50' AGL/1279' MSL. **Rwy 30,** multiple trees beginning 243' from DER, 131'left of centerline, up to 61' AGL/1287' MSL. Multiple trees 48' from DER, 328' right of centerline, up to 59' AGL/1329' MSL. **Rwy 34,** trees beginning 2341' from DER, left and right of centerline, up to 93' AGL/1293' MSL.

BRITTON, SD
BRITTON MUNI (BTN)
AMDT 2 96060 (FAA)
TAKE-OFF MINIMUMS: **Rwy 13,** 300-1 or std. with a min. climb of 450' per NM to 1600. **Rwy 19,** 300-1.
DEPARTURE PROCEDURE: **Rwy 19,** climb runway heading to 2000 before turning.

BROOKINGS, SD
BROOKINGS RGNL (BKX)
ORIG 09015 (FAA)
NOTE: **Rwy 12,** pole and trees beginning 1041' from departure end of runway, 207' left of centerline, up to 65' AGL/1705' MSL. Building 1277' from departure end of runway, 825' right of centerline, 38' AGL/1618' MSL. **Rwy 17,** vehicle on road 799' from departure end of runway, on centerline, up to 15' AGL/1687' MSL. Trees beginning 906' from departure end of runway, 464' left of centerline, up to 100' AGL/1749' MSL. **Rwy 30,** railroad beginning 547' from departure end of runway, 502' right of centerline, 23' AGL/1626' MSL. Tree 132' from departure end of runway, 433' left of centerline, 20' AGL/1615' MSL. **Rwy 35,** trees 2892' from departure end of runway, 944' right of centerline, up to 100' AGL/1709' MSL.

CANBY, MN
MYERS FIELD (CNB)
AMDT 1 10210 (FAA)
NOTE: **Rwy 12,** numerous poles beginning 40' from DER, 421' left and right of centerline, up to 36' AGL/1216' MSL. Truck on roads beginning 134' from DER, 37' left and right of centerline, up to 22' AGL/1202' MSL. Tree 3' from DER, 159' right of centerline, 7' AGL/1187' MSL. **Rwy 30,** numerous trees beginning 726' from DER, 176' left of centerline, up to 70' AGL/1278' MSL. Tree 1338' from DER, 716' right of centerline, 68' AGL/1268' MSL.

CASSELTON, ND
CASSELTON ROBERT MILLER RGNL (5N8)
ORIG 07354 (FAA)
TAKE-OFF MINIMUMS: **Rwy 31,** 400-2½ or std. w/ a min. climb of 212' per NM to 1400 or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.
NOTE: **Rwy 13,** railroad 30' from departure end of runway, 505' right of centerline, 23' AGL/945' MSL. Vehicle on road 449' from departure end of runway, 300' left of centerline, 15' AGL/949' MSL. **Rwy 31,** trees 2251' from departure end of runway, 456' left of centerline, up to 100' AGL/1052' MSL.

CAVALIER, ND
CAVALIER MUNI (2C8)
ORIG 03191 (FAA)
TAKE-OFF MINIMUMS: **Rwy 16,** 300-1 or std. with a min. climb of 430' per NM to 1200.
NOTE: **Rwy 16,** grain elevator 3731' from departure end of runway, 284' left of centerline, 168' AGL/1060' MSL.

CHAMBERLAIN, SD
CHAMBERLAIN MUNI (9V9)
ORIG 10154 (FAA)
TAKE-OFF MINIMUMS: **Rwys 18, 36,** NA-Environmental.
NOTE: **Rwy 31,** fence 457' from DER, 376' left of centerline, 10' AGL/1705' MSL. Fence 1294' from DER, 424' right of centerline, 10' AGL/1722' MSL. Trees beginning 1763' from DER, 892' left of centerline, up to 100' AGL/1819' MSL. Trees beginning 189' from DER, 41' right of centerline, up to 100' AGL/1819' MSL.

CLOQUET, MN
CLOQUET CARLTON COUNTY (COQ)
AMDT 1 80248 (FAA)
TAKE-OFF MINIMUMS: **Rwy 7,** 300-1 or std. with a min. climb of 400' per NM to 1400.

CROOKSTON, MN
CROOKSTON MUNI-KIRKWOOD FIELD (CKN)
AMDT 2 07298 (FAA)
TAKE-OFF MINIMUMS: **Rwys 6, 17, 24, 35,** NA-turf runways.
NOTE: **Rwy 13,** tree 1998' from departure end of runway, 587' left of centerline, 94' AGL/970' MSL. Pole 1127' from departure end of runway, 662' left of centerline, 46' AGL/926' MSL.

CROSBY, ND
CROSBY MUNI (D50)
ORIG 10154 (FAA)
TAKE-OFF MINIMUMS: **Rwys 3, 21,** NA-Environmental.
NOTE: **Rwy 12,** hangars and poles beginning 133' from DER, 263' right of centerline, up to 35' AGL/1983' MSL. Vehicle on road 800' from DER, 200' right of centerline, 22' AGL/1967' MSL. **Rwy 30,** power line, 2100' from DER, on centerline, 60' AGL/2011' MSL.

DETROIT LAKES, MN
DETROIT LAKES-WETHING FIELD (DTL)
ORIG 05132 (FAA)
TAKE-OFF MINIMUMS: **Rwys 17, 35,** NA.
NOTE: **Rwy 31,** highway 243' from departure end of runway, 267' right of centerline, 15' AGL/1404' MSL. Railroad 534' from departure end of runway, 298' right of centerline, 23' AGL/1411' MSL.

DEVILS LAKE, ND
DEVILS LAKE RGNL (DVL)
AMDT 1A 09351 (FAA)
TAKE-OFF MINIMUMS: **Rwy 31,** 300-1 or std. with a min. climb of 350' per NM to 1600.
NOTE: **Rwy 3,** tree 1528' from DER, 319' left of centerline, 100' AGL/1490' MSL. Tree 1520' from DER, 136' right of centerline, 100' AGL/1489' MSL. **Rwy 13,** bush 266' from DER, 523' left of centerline, 17' AGL/1451' MSL. Road, light pole and antenna on building beginning 95' from DER, 414' right of centerline, up to 17' AGL/1484' MSL. **Rwy 21,** roads beginning 335' from DER, 2' right of centerline, 15' AGL/1447' MSL, multiple poles, trees and towers beginning 552' from DER 355' left of centerline, up to 123' AGL/1548' MSL. **Rwy 31,** road 470' from DER, 424' right of centerline, 15' AGL/1472' MSL. Multiple poles and trees beginning 1180' from DER, 354' left of centerline, up to 49' AGL/1545' MSL.

DICKINSON, ND
DICKINSON-THEODORE ROOSEVELT RGNL (DIK)
AMDT 1 05244 (FAA)
DEPARTURE PROCEDURE: **Rwy 25,** climb via heading 250° to 3100 before turning left.
NOTE: **Rwy 7,** road 887' from departure end of runway, on rwy centerline, 15' AGL/2631' MSL.

DODGE CENTER, MN
DODGE CENTER (TOB)
ORIG 09015 (FAA)
TAKE-OFF MINIMUMS: **Rwy 22,** NA-Environmental.
NOTE: **Rwy 16,** trees 3945' from departure end of runway, 1542' left of centerline, 100' AGL/1409' MSL.

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DULUTH, MN

DULUTH INTL (DLH)
ORIG 06327 (FAA)

NOTE: **Rwy 3,** multiple trees beginning 21' from departure end of runway, 226' right of centerline, up to 68' AGL/1477' MSL. Multiple trees beginning 246' from departure end of runway, 26' left of centerline, up to 64' AGL/1473' MSL. **Rwy 9,** electrical equipment 207' from departure end of runway, 408' left of centerline, 6' AGL/1425' MSL. **Rwy 21,** tower 3762' from departure end of runway, 410' left of centerline, 92' AGL/1522' MSL. **Rwy 27,** tree 2426' from departure end of runway, 1127' right of centerline, 53' AGL/1522' MSL. Bush and multiple trees beginning 347' from departure end of runway, 484' left of centerline, up to 44' AGL/1533' MSL.

SKY HARBOR (DYT)
ORIG 83174 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14,** 300-1. **Rwy 32,** 1500-2 or std. with a min. climb of 360' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 14,** northwest departures (260° CW 030°) climb to 2300 via heading 260° or 030° before proceeding on course.

EAGLE BUTTE, SD

CHEYENNE EAGLE BUTTE (84D)
ORIG 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13,31,** 300-1.

ELY, MN

ELY MUNI (ELO)
AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12,** 300-1 or std. with a min. climb of 200' per NM to 1600.

DEPARTURE PROCEDURE: **Rwy 30,** northbound departures climb runway heading to 2000 before turning.

EVELETH, MN

EVELETH-VIRGINIA MUNI (EVM)
AMDT 2 94118 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32,** 800-2 or std. with a min. climb to 330' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 27**, northwest departures (270°-050°) climb runway heading to 2200 before turning.

FAIRMONT, MN

FAIRMONT MUNI (FRM)
AMDT 3 09127 (FAA)

NOTE: **Rwy 2,** trees beginning 2466' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL. **Rwy 13,** tree 2340' from DER, 1039' left of centerline, 100' AGL/1269' MSL. **Rwy 20,** trees beginning 1640' from DER, 914' right of centerline, up to 100' AGL/1289' MSL. Trees beginning 913' from DER, 449' left of centerline, up to 100' AGL/1299' MSL. **Rwy 31,** trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/1299' MSL. Trees and road beginning 791' from DER, 339' right of centerline, up to 57' AGL/1226' MSL.

FARGO, ND

HECTOR INTL (FAR)
AMDT 4 04330 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13,31,** NA.

NOTE: **Rwy 9,** multiple light poles 1124' from departure end of runway, 305' left of centerline, 20' AGL/927' MSL.

FARIBAULT, MN

FARIBAULT MUNI (FBL)
ORIG 10266 (FAA)

NOTE: **Rwy 12,** numerous trees beginning 73' from DER, 51' right and left of centerline, up to 100' AGL/1169' MSL. **Rwy 30,** numerous trees beginning 24' from DER, 266' right and left of centerline, up to 100' AGL/1189' MSL.

FERGUS FALLS, MN

FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM)
ORIG 09239 (FAA)

NOTE: **Rwy 13,** trees beginning 2612' from DER, 128' right of centerline, up to 100' AGL/1269' MSL. Trees beginning 2514' from DER, 42' left of centerline, up to 100' AGL/1259' MSL. **Rwy 17,** trees beginning 1100' from DER 663' right of centerline, up to 100' AGL/1269' MSL. Road 222' from DER, 469' right of centerline, 15' AGL/1173' MSL. **Rwy 35,** trees beginning 2156' from DER, 176' right of centerline, up to 100' AGL/1289' MSL.

FOSSTON, MN

FOSSTON MUNI (FSE)
AMDT 1A 10182 (FAA)

DEPARTURE PROCEDURE: **Rwy 16,** climb runway heading to 2000 before turning.

GETTYSBURG, SD

GETTYSBURG MUNI (0D8)
AMDT 1 07018 (FAA)

NOTE: **Rwy 4,** multiple trees beginning 1011' from departure end of runway, 420' left of centerline, up to 60' AGL/2119' MSL. **Rwy 13,** multiple trees beginning 1897' from departure end of runway, 975' left of centerline, 60' AGL/2119' MSL. **Rwy 22,** multiple trees beginning 679' from departure end of runway, 117' left of centerline, up to 60' AGL/2109' MSL.

GLENCOE, MN

GLENCOE MUNI (GYL)
ORIG 09071 (FAA)

NOTE: **Rwy 13,** trees beginning349' from DER, 257' right of centerline, up to 100' AGL/1099' MSL. Trees beginning 1211' from DER, 314' left of centerline, up to 100' AGL/1109' MSL. Terrain beginning 53' from DER, 166' left of centerline, up to 998' MSL. Terrain beginning 286' from DER, 435' right of centerline, up to 1001' MSL. **Rwy 31,** trees beginning 501' from DER, 530' right of centerline, up to 100' AGL/1099' MSL. Tree 2577' from DER, 129' left of centerline, 100' AGL/1109' MSL.

GLENWOOD, MN
GLENWOOD MUNI (GHW)
AMDT 2 98337 (FAA)
TAKE-OFF MINIMUMS: **Rwy 5,** 1200-2 or std. with a min. climb of 220' per NM to 2900.

GRAFTON, ND
HUTSON FIELD (GAF)
AMDT 1 10210 (FAA)
TAKE-OFF MINIMUMS: **Rwys 8, 26,** NA-Environmental.
NOTE: **Rwy 17,** vehicle on roads beginning 23' from DER, 300' left of centerline, up to 15' AGL/837' MSL. Tree 2612' from DER, 857' left of centerline, 100' AGL/929' MSL. **Rwy 35,** building 107' from DER, 344' left of centerline, 17' AGL/836' MSL. Electrical system 153' from DER, 398' left of centerline, 21' AGL/840' MSL. Vehicle on roads beginning 260' from DER, 74' left of centerline, up to 15' AGL/841' MSL. Obstruction light on airport beacon 471' from DER, 601' left of centerline, 54' AGL/873' MSL.

GRAND FORKS, ND
GRAND FORKS INTL (GFK)
AMDT 2 09071 (FAA)
NOTE: **Rwy 9L,** tree 127' from DER, 451' left of centerline, 12' AGL/853' MSL. **Rwy 27R,** bush 38' from DER, 474' right of centerline, 5' AGL/844' MSL. **Rwy 35L,** obstruction light on DME 645' from DER, 198' left of centerline, 21' AGL/860' MSL. **Rwy 35R,** tree 1259' from DER, 521' right of centerline, 41' AGL/880' MSL. Tree 1655' from DER, 271' left of centerline, 45' AGL/884' MSL.

GRAND MARAIS, MN
GRAND MARAIS/COOK COUNTY (CKC)
ORIG 09015 (FAA)
NOTE: **Rwy 9,** trees beginning 58' from departure end of runway, 168' right of centerline up to 54' AGL/1833' MSL. Bushes 112' from departure end of runway, 142' left of centerline, 11' AGL/1805' MSL. Tree 464' from departure end of runway, 75' left of centerline, 14' AGL/1813' MSL. **Rwy 27,** trees beginning 85' from departure end of runway, 187' left of centerline, up to 59' AGL/1858' MSL. Trees beginning 282' from departure end of runway, 115' right of centerline, up to 42' AGL/1861' MSL.

GRAND RAPIDS, MN
GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)
AMDT 4 09127 (FAA)
TAKE-OFF MINIMUMS: **Rwys 5,10,23,28,** NA-Environmental.
NOTE: **Rwy 16,** tree 1655' from DER, 899' left of centerline, 51' AGL/1410' MSL. Tree 3236' from DER, 1130' right of centerline, 82' AGL/1441' MSL. **Rwy 34,** tree 3416' from DER, 1253' right of centerline, 100' AGL/1399' MSL.

GRANITE FALLS, MN
GRANITE FALLS MUNI/LENZEN-ROE MEML FLD (GDB)
ORIG 10126 (FAA)
NOTE: **Rwy 15,** trees beginning 1780' from DER, 94' left of centerline, up to 100' AGL/1149' MSL. **Rwy 33,** trees beginning 1196' from DER, right and left of centerline, up to 100' AGL/1149' MSL. Powerline 1242' from DER, 762' left of centerline, 80' AGL/1129' MSL. Train 1390' from DER, 149' left of centerline, 23' AGL/1162' MSL. Vehicle on road 1389' from DER, 156' left of centerline, up to 15' AGL/1154' MSL.

GREGORY, SD
GREGORY MUNI, FLYNN FIELD (9D1)
ORIG-A 10182 (FAA)
TAKE-OFF MINIMUMS: **Rwy 31,** 400-2¼ or std. with a min. climb of 228' per NM to 2600.
NOTE: **Rwy 31,** tower 11377' from DER, 816' right of centerline, 210' AGL/2491' MSL.

GWINNER, ND
GWINNER-ROGER MELROE FIELD (GWR)
ORIG 09183 (FAA)
TAKE-OFF MINIMUMS: **Rwys 6, 24,** NA-Environment. **Rwy 34,** Std. w/ min. climb of 216' per NM to 2000, or 900-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 34,** for climb in visual conditions, cross Gwinner-Roger Melroe Field at or above 2000, before proceeding on course.
NOTE: **Rwy 16,** terrain beginning 15' from DER, 73' right of centerline, 1257' MSL. **Rwy 34,** road and vehicle 436' from DER, on centerline, 15' AGL/1286' MSL.

HARVEY, ND
HARVEY MUNI (5H4)
ORIG 10266 (FAA)
NOTE: **Rwy 11,** vehicle on road beginning 50' from DER, 318' left of centerline, up to 15' AGL/1654' MSL. Tree 300' from DER, 329' right of centerline, 20' AGL/1621' MSL. Tree 350' from DER, 444' right of centerline, 20' AGL/1619' MSL. **Rwy 29,** vehicle on road beginning 4' from DER, left and right of centerline, up to 15' AGL/1654' MSL. Rising terrain beginning 7' from DER, 31' left of centerline, up to 1608' MSL.

HAWLEY, MN
HAWLEY MUNI (04Y)
ORIG 07074 (FAA)
NOTE: **Rwy 34,** road 15' from departure end of runway, 421' left of centerline, 15' AGL/1224' MSL.

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HAZEN, ND
MERCER COUNTY RGNL (HZE)
ORIG 10210 (FAA)
TAKE-OFF MINIMUMS: **Rwy 32,** std. w/ min. climb of 215' per NM to 2700, or 900-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 32,** for climb in visual conditions: cross Mercer County Rgnl airport at or above 2600 MSL before proceeding on course.
NOTE: **Rwy 14,** numerous fences beginning 196' from DER, 108' left of centerline, up to 12' AGL/1843' MSL. Terrain beginning 501' from DER, 271' left of centerline, up to 1837' MSL. **Rwy 32,** tree 1291' from DER, 592' right of centerline, 25' AGL/1833' MSL. Terrain 495' from DER, 360' left of centerline, 1803' MSL. Fence 5' from DER, 298' left of centerline, 8' AGL/1790' MSL. Tree 1444' from DER, 520' right of centerline, 25' AGL/1823' MSL.

HETTINGER, ND
HETTINGER MUNI (HEI)
AMDT 2 10154 (FAA)
TAKE-OFF MINIMUMS: **Rwy 12,** 300-1 or std. with a min. climb of 324' per NM to 3000. **Rwys 17, 35,** NA-Environmental.
NOTE: **Rwy 30,** road plus vehicles beginning 63' from DER, crossing left to right, 15' AGL/2744' MSL. Trees beginning 4306' from DER, 17' right of centerline, 100' AGL/2819' MSL.

HIBBING, MN
RANGE RGNL (HIB)
AMDT 6 04218 (FAA)
DEPARTURE PROCEDURE: **Rwy 22,** climb via heading 227° to 2200 before turning right. **Rwy 31,** climb via heading 310° to 2200 before turning left.
NOTE: **Rwy 4,** antenna on pole, 361' from departure end of runway, 409' right of centerline, 1377' MSL. **Rwy 13,** obstacle light on pole, 1184' from departure end of runway, 636' left of centerline. Numerous trees beginning 1291' from departure end of runway, 745' left of centerline up to 1419' MSL. Trees 1497' from departure end of runway, 563' right of centerline, 1388' MSL. **Rwy 22,** multiple trees beginning 368' from departure end of runway, 170' right of centerline, up to 1416' MSL. Multiple trees beginning 413' from departure end of runway, 117' left of centerline, up to 1400' MSL. **Rwy 31,** light standard, 865' from departure end of runway, 595' right of centerline, 1381' MSL.

HILLSBORO, ND
HILLSBORO MUNI (3H4)
ORIG 97198 (FAA)
DEPARTURE PROCEDURE: **Rwys 16, 34,** climb runway heading to 2000 prior to turning westbound.

HINCKLEY, MN
FIELD OF DREAMS (04W)
ORIG 08045 (FAA)
NOTE: **Rwy 6,** Tree 82' from departure end of runway, 480' right of centerline, 100' AGL/1114' MSL. Tree 143' from departure end of runway, 161' left of centerline, 100' AGL/1114' MSL. **Rwy 24,** Tree 48' from departure end of runway, 165' left of centerline, 100' AGL/1124' MSL.

HOT SPRINGS, SD
HOT SPRINGS MUNI (HSR)
ORIG 97142 (FAA)
TAKE-OFF MINIMUMS: **Rwy 1,** 300-1 or std. with a min. climb of 360' per NM to 5000. **Rwy 19,** 300-2 or std. with a min. climb of 250' per NM to 5000.
DEPARTURE PROCEDURE: **Rwys 1,19,** climb runway heading to 5000 before proceeding westbound.

HURON, SD
HURON RGNL (HON)
AMDT 5 09239 (FAA)
NOTE: **Rwy 12,** trees and pole beginning 918' from DER, 525' left of centerline, up to 62' AGL/1341' MSL. Trees beginning 291' from DER, 234' right of centerline, up to 100' AGL/1389' MSL. **Rwy 17,** trees beginning 236' from DER, 307' left of centerline, up to 67' AGL/1346' MSL. Trees beginning 264' from DER, 262' right of centerline, 73' AGL/1352' MSL. **Rwy 30,** trees beginning 3428' from DER, 1378' left of centerline, up to 100' AGL/1394' MSL. **Rwy 35,** trees beginning 60' from DER, 104' left of centerline, up to 49' AGL/1328' MSL. Trees beginning 251' from DER, 97' right of centerline, 52' AGL/1331' MSL.

INTERNATIONAL FALLS, MN
FALLS INTL (INL)
AMDT 3 08101 (FAA)
NOTE: **Rwy 4,** Tree 392' from departure end of runway 311' left of centerline, 51' AGL/1231' MSL. **Rwy 13,** multiple trees beginning 1999' from departure end of runway, 773' left of centerline, up to 63' AGL/1233' MSL. Pole 1091, from departure end of runway, 703' right of centerline, 37' AGL/1207' MSL. Road 1005' from departure end of runway, 766' left of centerline, 15' AGL/1195' MSL. **Rwy 22,** Multiple trees beginning 433' from departure end of runway 273' left of centerline, up to 33' AGL/1213' MSL. Trees 1144' from departure end of runway 136' right of centerline, 28' AGL/1208' MSL. **Rwy 31,** Trees 968' from departue end of runway, 752' left of centerline, 56' AGL/1236' MSL.

JACKSON, MN
JACKSON MUNI (MJQ)
ORIG 08045 (FAA)
TAKE-OFF MINIMUMS: **Rwys 4,22,** NA-TURF.
DEPARTURE PROCEDURE: **Rwy 13,** Climb heading 134° to 1900 before turning right.
NOTES: **Rwy 13,** Trees beginning 1474' from departure end of runway, 556' left of centerline, up to 80' AGL/1539' MSL. Vehicle on road 258' from departure end of runway, 559' from centerline, 15' AGL/1459' MSL. **Rwy 31,** Vehicle on road 465' from departure end of runway, 618' left of centerline, 15' AGL/1446' MSL. Trees beginning 1616' from departure end of runway, 580' right of centerline, up to 80' AGL/1519' MSL. Trees beginning 1110' from departure end of runway, 429' left of centerline, up to 80' AGL/1509' MSL.

JAMESTOWN, ND
JAMESTOWN RGNL (JMS)
AMDT 1 07242 (FAA)
NOTE: **Rwy 22,** antenna and tank beginning 2960' from departure end of runway, 1007' left of centerline, up to 150' AGL/1631' MSL. **Rwy 31,** multiple trees beginning 2129' from departure end of runway 47' right of centerline, up to 60' AGL/1560' MSL.

KINDRED, ND
HAMRY FIELD (K74)
ORIG 10042 (FAA)
NOTE: **Rwy 29,** tree 991' from DER, 367' left of centerline, 38' AGL/982' MSL. Tree 1073' from DER, 221' left of centerline, 38' AGL/982' MSL.

LANGDON, ND
ROBERTSON FIELD (D55)
ORIG 10154 (FAA)
TAKE-OFF MINMUMS: **Rwys 8, 26,** NA - Environmental.
NOTE: **Rwy 14,** vehicles on road beginning 479' to 684' from DER, from 238' to 413' left of centerline, up to 15' AGL/1627' MSL. **Rwy 32,** windsock 13' from DER, 416' right of centerline, 16' AGL/1619' MSL. Fence 24' from DER, 301' left of centerline, 5' AGL/1608' MSL. Fence 199' from DER, 293' left of centerline, 5' AGL/1608' MSL. Trees beginning 485' from DER 203' right of centerline, up to 30' AGL/1628' MSL. Trees beginning 1912' from DER, from 241' to 418' left of centerline, up to 78' AGL/ 1677' MSL.

LITCHFIELD, MN
LITCHFIELD MUNI (LJF)
AMDT 1 10266 (FAA)
DEPARTURE PROCEDURE: **Rwy 31,** climb heading 316° to 1700 before turning left.
NOTE: **Rwy 13,** trees beginning 11' from DER, 417' left and right of centerline, up to 90' AGL/1234' MSL. Trees beginning 1251' from DER, 830' left of centerline, up to 89' AGL/1228' MSL. **Rwy 31,** trees beginning 958' from DER, 73' left of centerline, up to 46' AGL/1185' MSL. Trees beginning 13' from DER, 370' right of centerline, up to 95' AGL/1234' MSL.

LITTLE FALLS, MN
LITTLE FALLS/MORRISON COUNTY CHARLES A. LINDBERGH FIELD (LXL)
AMDT 3 96172 (FAA)
TAKE-OFF MINIMUMS: **Rwy 13,** 300-1 or std. with a min. climb of 250' per NM to 1500. **Rwy 36,** 600-1½ or std. with a min. climb of 345' per NM to 1700.
DEPARTURE PROCEDURE: **Rwy 31**, climb to 1700 before turning.

LONG PRAIRIE, MN
TODD FIELD (14Y)
ORIG 08157 (FAA)
NOTE: **Rwy 16,** tree 273' from departure end of runway, 310' right of centerline, 100' AGL/1436' MSL. **Rwy 34,** tree 70' from departure end of runway, 100' right of centerline, 100' AGL/1439' MSL. Tree 122' from departure end of runway, 105' left of centerline, 100' AGL/1436' MSL. Tree 18' from departure end of runway, 106' right of centerline, 100' AGL/1433' MSL.

LUVERNE, MN
QUENTIN AANENSON FIELD (LYV)
ORIG 10154 (FAA)
NOTE: **Rwy 18,** tree 813' from DER, 578' left of centerline, 50' AGL/1469' MSL. Road plus vehicle 685' from DER, 574' right of centerline, 15' AGL/1454' MSL. Terrain 20' from DER, on centerline, 1429' MSL.
Rwy 36, transmission tower, 5752' from DER, 1036' right of centerline, 139' AGL/1581' MSL.

MANKATO, MN
MANKATO RGNL (MKT)
ORIG 09267 (FAA)
NOTE: **Rwy 4,** trees beginning 447' from DER, 408' right of centerline, up to 100' AGL/1078' MSL. Trees beginning 1996' from DER, 17' left of centerline, up to 100' AGL/1084' MSL. **Rwy 15,** trees beginning 1552' from DER, 719' left of centerline, up to 100' AGL/1088' MSL. **Rwy 22,** trees beginning 2370' from DER, 989' right of centerline, up to 100' AGL/1069' MSL. **Rwy 33,** trees beginning 2085' from DER, 780' right of centerline, up to 100' AGL/1077' MSL. Rising terrain 9' from DER, 65' right of centerline, up to 1029' MSL. Terrain beginning 82' from DER, 60' left of centerline, up to 1029' MSL.

MARSHALL, MN
SOUTHWEST MINNESOTA RGNL MARSHALL/ RYAN FIELD (MML)
AMDT 2 08101 (FAA)
TAKE-OFF MINIMUMS: **Rwy 20,** Std. w/ min. climb of 270' per NM to 2000, or 1000-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 20,** for climb in visual conditions, cross Marshall Airport at or above 2000 MSL before proceeding on course.
NOTE: **Rwy 12,** Pole 706' from departure end of runway, 671' right of centerline, 60' AGL/1212' MSL, pole 1580' from departure end of runway, 732' left of centerline, 70' AGL/1225' MSL, antenna 1496' from departure end of runway, 620' right of centerline, 64' AGL/1219' MSL, pole 1185' from departure end of runway, 540' right of centerline, 55' AGL/1210' MSL, tree 3564' from departure end of runway, 400' right of centerline, 110' AGL/1269' MSL, tree 2135' from departure end of runway, 113' left of centerline, 77' AGL/1232' MSL. **Rwy 30,** Vehicle on road 1' from departure end of runway, 435' left of centerline, 24' AGL/1200' MSL.

MILBANK, SD
MILBANK MUNI (1D1)
ORIG 08101 (FAA)
TAKE-OFF MINIMUMS: **Rwy 25,** Std. w/ a min. climb of 207' per NM to 1900, or 900-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 25,** For climb in visual conditions cross Milbank Muni airport at or abov e 1900 before proceeding on course.
NOTE: **Rwy 7,** trees beginning 1207' from departure end of runway, 387' left of centerline, up to 100' AGL/ 1219' MSL. Vehicle on road 829' from departure end of runway, 373' right of centerline, 15' AGL/ 1134' MSL. Building 322' from departure end of runway, 582' right of centerline, 25' AGL/ 1134' MSL. **Rwy 13,** trees beginning 1448' from departure end of runway, 394' right of centerline, up to 100' AGL/ 1219' MSL. Vehicle on road 218' from departure end of runway, 490' left of centerline, 15' AGL/ 1134' MSL. Building 78' from departure end of runway, 397' left of centerline, 25' AGL/ 1134' MSL. **Rwy 25,** tree 3584' from departure end of runway, 477' left of centerline, 100' AGL/ 1249' MSL. **Rwy 31,** tree 2992' from departure end of runway, 715' left of centerline, 100' AGL/ 1239' MSL.

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MILLER, SD

MILLER MUNI (MKA)
ORIG 08269 (FAA)

NOTE: **Rwy 15,** vehicle on road 769' from departure end of runway, 642' right of centerline, 15' AGL/1599' MSL. Snow removal equipment 206' from departure end of runway, 475' right of centerline, 21' AGL/1594' MSL. Tree 3903' from departure end of runway, 998' left of centerline, 100' AGL/1684' MSL. **Rwy 33,** vehicle on road 450' from departure end of runway, 560' left of centerline, 15' AGL/1584' MSL. Tree 762' from departure end of runway, 628' left of centerline, 100' AGL/1669' MSL.

MINNEAPOLIS, MN

AIRLAKE (LVN)
ORIG 10154 (FAA)

NOTE: **Rwy 12,** ground 198' from DER, 533' right of centerline, 0' AGL/963' MSL. Tree and vehicle on road, beginning 422' from DER, 379' right of centerline, up to 15' AGL/978' MSL. Tree 1291' from DER, 506' left of centerline, 62' AGL/1002' MSL. **Rwy 30,** ground 104' from DER, 479' left of centerline, 0' AGL/965' MSL. Tree, pole, and antenna on building beginning 171' from DER, 259' right of centerline, up to 50' AGL/1000' MSL. Tree, railroad, and antenna on building 486' from DER, 268' left of centerline, up to 41' AGL/1001' MSL. Trees and a building beginning 821' from DER, 30' right of centerline, up to 49' AGL/1009' MSL.

ANOKA COUNTY-BLAINE AIRPORT
(JANES FIELD) (ANE)
AMDT 5A 10126 (FAA)

TAKE-OFF MINIMUMS; **Rwy 9,** 300-1½ or std. w/ min. climb of 204' per NM to 1200, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1200' prior to DER. **Rwy 18,** 300-1 or std. w/ min. climb of 367' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 9,** climb heading 089° to 2200 before turning right. **Rwy 18,** climb heading 179° to 2600 before turning left. **Rwy 27,** climb heading 269° to 1700 before proceeding southeast bound.
Rwy 36, climb heading 359° to 1700 before proceeding southeast bound.

NOTE: **Rwy 9,** tank and multiple trees beginning 822' from DER, 619' right of centerline, up to 170' AGL/1082' MSL. Trees 2248' from DER, 966' left of centerline, 100' AGL/1009' MSL. **Rwy 18,** aircraft on taxiway 36' from DER, 481' right of centerline, up to 21' AGL/928' MSL. Multiple trees beginning 406' from DER, 287' left of centerline, up to 49' AGL/959' MSL. Tower 5016' from DER, 201' left of centerline, 120' AGL/1078' MSL.
Rwy 27, multiple trees beginning 7' from DER, 235' right of centerline, up to 83' AGL/983' MSL. Multiple trees beginning 558' from DER, 406' left of centerline, up to 57' AGL/957'MSL. **Rwy 36,** multiple trees beginning 86' from DER, 10' right of centerline, up to 87' AGL/987' MSL. Multiple trees beginning 1282' from DER, 53' left of centerline, up to 70' AGL/970' MSL.

MINNEAPOLIS, MN (CON'T)

CRYSTAL (MIC)
AMDT 2 81050 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14L,14R,32L,32R,** 300-1. **Rwys 24L,24R,** 300-1 or std. with a min. climb of 215' per NM to 1000. **Rwys 6L, 6R,** 300-1 or std. with a min. climb of 285' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 6L,6R,14L,14R,** eastbound departures (050°-130°) climb runway heading to 2800 before turning.

FLYING CLOUD (FCM)
AMDT 4 08157 (FAA)

NOTE: **Rwy 10L,** multiple antenna's on hangar's beginning 270' from departure end of runway, 330' left of centerline, up to 26' AGL/932' MSL. Tree 682' from departure end of runway, 668' right of centerline, 26' AGL/932' MSL. **Rwy 10R,** multiple obstruction light on poles beginning 287' from departure end of runway, 345' right of centerline, up to 36' AGL/939' MSL. Hangar 150' from departure end of runway, 422' right of centerline, 21' AGL/920' MSL. Antenna on building, 536' from departure end of runway, 263' right of centerline, 14' AGL/913' MSL. **Rwy 18,** multiple trees beginning 338' from departure end of runway, 166' left of centerline, up to 62' AGL/961' MSL. Obstruction light on fence 176' from departure end of runway, 127' left of centerline, 10' AGL/910' MSL. Vehicle and road 198' from departure end of runway, 196' left of centerline, 15' AGL/918' MSL. Floodlight 148' from departure end of runway, 374' right of centerline, 38' AGL/938' MSL. Obstruction light on hangar 282' from departure end of runway, 317' right of centerline, 37' AGL/937' MSL. **Rwy 28R,** Hangar 259' from departure end of runway, 355' right of centerline, 18' AGL/931' MSL. **Rwy 36,** wind vane 923' from departure end of runway, 404' left of centerline, 61' AGL/960' MSL. Vent on building 943' from departure end of runway, 295' left of centerline, 44' AGL/943' MSL. Pole 714' from departure end of runway, 351' left of centerline, 33' AGL/932' MSL. Multiple trees beginning 504' from departure end of runway, 324' right of centerline, up to 67' AGL/966' MSL.

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MINNEAPOLIS, MN (CON'T)

MINNEAPOLIS-ST. PAUL INTL
(WOLD CHAMBERLAIN) (MSP)
AMDT 11 07130 (FAA)

TAKEOFF MINIMUMS: **Rwy 35,** std. with a min. climb of 219' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 043° to 2100 before turning left. **Rwy 30L,** climb heading 299° to 2100 before turning right. **Rwy 30R,** climb heading 299° to 2100 before turning right.
Rwy 35, climb via heading 348° to 2100 before turning left.

NOTE: **Rwy 4,** multiple trees beginning 800' from departure endof runway, 264' left of centerline, up to 75' AGL/921' MSL. Rod on building 2528' from departure end of runway, 1175' left of centerline, 78' AGL/922' MSL. Fence 803' from departure end of runway, 585' left of centerline, 15' AGL/860' MSL. Antenna on OL building 456' from departure end of runway, 319' left of centerline, 13' AGL/850' MSL. Light poles 1932' from departure end of runway, 718' left of centerline, 45' AGL/885' MSL. Stack 4535' from departure end of runway, 481' left of centerline, 139' AGL/949' MSL. **Rwy 12R,** multiple trees beginning 1477' from departure end of runway, 407' left of centerline, up to 86' AGL/851' MSL. Multiple trees beginning 1426' from departure end of runway, 124' right of centerline, up to 111' AGL/847' MSL. Light pole 1408' from departure end of runway, 746' right of centerline, 85' AGL/843' MSL. Radar RFLTR 983' from departure end of runway, 32' left of centerline, 15' AGL/829' MSL. Pipe on building, 826' from departure end of runway, 576' left of centerline, 10' AGL/825' MSL. Obstruction light on localizer 766' from departure end of runway, on centerline, 7' AGL/821' MSL. **Rwy 17,** antenna 1272' from departure end of runway, 562' right of centerline, 57' AGL/891' MSL. Pole 409' from departure end of runway, 530' right of centerline, 29' AGL/866' MSL. WDI on building 2619' from departure end of runway, 881' left of centerline, 97' AGL/918' MSL. Building 2619' from departure end of runway, 859' left of centerline, 84' AGL/905' MSL. Light 1176' from departure end of runway, 291' right of centerline, 11' AGL/875' MSL. Tree 2619' from departure end of runway, on centerline, 79' AGL/900' MSL. **Rwy 22,** tree 2906' from departure end of runway, 833' right of centerline, 94' AGL/934' MSL. Hopper 1717' from departure end of runway, 456' left of centerline, 48' AGL/888' MSL. **Rwy 30L,** multiple trees beginning 1113' from departure end of runway, 701' left of centerline, up to 80' AGL/919' MSL. Tree 1230' from departure end of runway, 633' right of centerline, 30' AGL/877' MSL. Ground 28' from departure end of runway, 490' right of centerline, 0' AGL/844' MSL. **Rwy 30R,** building 1056' from departure end of runway, 198' left of centerline, 13' AGL/853' MSL. Multiple trees beginning 3010' from departure end of runway, 334' left of centerline, up to 94' AGL/940' MSL. Light pole 1849' from departure end of runway, 698' right of centerline, 17' AGL/871' MSL. Fence 1327' from departure end of runway, 667' right of centerline, 8' AGL/857' MSL. Tree 3703' from departure end of runway, 350' right of centerline, 67' AGL/914' MSL. Rod on pole 3143' from departure end of runway, 47' right of centerline, 38' AGL/898' MSL. **Rwy 35,** tree 175' from departure end of runway, 398' right of centerline, 73' AGL/883' MSL. Multiple trees beginning 1989' from departure end of runway, 351' left of centerline, up to 65' AGL/902' MSL. Multiple buildings beginning 5.45 NM from departure end of runway, 1787' left of centerline, up to 811' AGL/1743' MSL.

MINOT, ND

MINOT INTL (MOT)
AMDT 3 06103 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26,** 300-1½ or std. with a min. climb of 219' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 13,** climb via heading 128° to 2200 before turning right. **Rwy 26,** climb via heading 260° to 2300 before turning left.

NOTE: **Rwy 8,** tree 1801' from departure end of runway, 292' left of centerline, 56' AGL/1714' MSL. Tree 1459' from departure end of runway, 528' left of centerline, 47' AGL/1705' MSL. **Rwy 26,** tree 1750' from departure end of runway, 618' right of centerline, 71' AGL/1786' MSL. Tree 1829' from departure end of runway, 376' left of centerline, 65' AGL/1780' MSL. Light pole 1110' from departure end of runway, 610' left of centerline, 44' AGL/1759' MSL. Tank 1.1 NM from departure end of runway, 1810' right of centerline, 184' AGL/1899' MSL. Tree 1782' from departure end of runway, 273' right of centerline, 49' AGL/1764' MSL. Light pole 1294' from departure end of runway, 452' right of centerline, 29' AGL/1751' MSL. Tree 2019' from departure end of runway, 393' right of centerline, 54' AGL/1769' MSL. Building 1431' from departure end of runway, 301' right of centerline, 38' AGL/1753' MSL. Light pole 1418' from departure end of runway, 23' right of centerline, 36' AGL/1751' MSL.

MITCHELL, SD

MITCHELL MUNI (MHE)
AMDT 1 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 12, 17,** climb to 1800 before turning.

MOBRIDGE, SD

MOBRIDGE MUNI(MBG)
ORIG 88154 (FAA)

TAKE-OFF MINIMUMS: **RWY 35,** 300-1.

DEPARTURE PROCEDURE: **Rwys 12, 17, 30, 35,** climb runway heading to 2500 before turning on course.

MONTEVIDEO, MN

MONTEVIDEO-CHIPPEWA COUNTY (MVE)

TAKE-OFF MINIMUMS: **Rwy 21,** 400-1½.

DEPARTURE PROCEDURE: **Rwy 14,** climb runway heading to 1500 before turning.

MOOSE LAKE, MN

MOOSE LAKE CARLTON COUNTY (MZH)
ORIG 94006 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22,** 300-1.

MORRIS, MN

MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)
ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22,** NA-Environmental.

NOTE: **Rwy 32,** Trees 2888' from departure end of runway, 1125' left of centerline, 100' AGL/1209' MSL.

OAKES, ND

OAKES MUNI (2D5)
ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30,** 300-1 or std. with a min. climb of 260' per NM to 1700.

OLIVIA, MN
OLIVIA RGNL (OVL)
AMDT 1 86044 (FAA)
TAKE-OFF MINIMUMS: **Rwy 11,** 300-1.

ORR, MN
ORR RGNL (ORB)
AMDT 1 80136 (FAA)
TAKE-OFF MINIMUMS: **Rwy 13,** 500-2 or std. with a min. climb of 260' per NM to 1900.

ORTONVILLE, MN
ORTONVILLE MUNI-MARTINSON FIELD (VVV)
ORIG 81274 (FAA)
TAKE-OFF MINIMUMS: **Rwy 16,** 300-1 or std. with a min. climb of 210' per NM to 1300.

OWATONNA, MN
OWATONNA DEGNER RGNL (OWA)
AMDT 2 97030 (FAA)
DEPARTURE PROCEDURE: **Rwy 12,** climb runway heading to 1500 before turning on course.

PEMBINA, ND
PEMBINA MUNI (PMB)
ORIG 85325 (FAA)
DEPARTURE PROCEDURE: **Rwy 33,** climb runway heading 3200 before turning left.

PERHAM, MN
PERHAM MUNI (16D)
ORIG 98113 (FAA)
TAKE-OFF MINIMUMS: **Rwy 12,** 500-2 or std. with a min. climb of 210' per NM to 2000. **Rwy 30,** 400-1 or std. with a min. climb of 270' per NM to 1800.
DEPARTURE PROCEDURE: **Rwy 12,** climb runway heading to 2000 before proceeding on course. **Rwy 30,** climb runway heading to 1800 before proceeding on course.

PIERRE, SD
PIERRE RGNL (PIR)
AMDT 2 85115 (FAA)
TAKE-OFF MINIMUMS: **Rwy 25,** 300-1.

PINE RIDGE, SD
PINE RIDGE (IEN)
ORIG 97226 (FAA)
TAKE-OFF MINIMUMS: **Rwy 12,** 300-1 or std. with a min. climb of 350' per NM to 3600. **Rwy 24,** 300-1 or std. with a min. climb of 220' per NM to 3500. **Rwy 30,** 300-1 or std. with a min. climb of 300' per NM to 3600.

PIPESTONE, MN
PIPESTONE MUNI (PQN)
ORIG 08045 (FAA)
TAKE-OFF MINIMUMS: **Rwys 9,27,** NA-Environmental.
NOTE: **Rwy 18,** Trees beginning 3811' from departure end of runway, 854' right of centerline, up to 100' AGL/ 1859' MSL.

PRESTON, MN
FILLMORE COUNTY (FKA)
ORIG 98113 (FAA)
TAKE-OFF MINIMUMS: **Rwys 11,29,** 300-1.

PRINCETON, MN
PRINCETON MUNI (PNM)
AMDT 1 05132 (FAA)
NOTE: **Rwy 15,** trees 982' from departure end of runway, 335' right of centerline, 50' AGL/1029' MSL. Trees 1449' from departure end of runway, 387' left of centerline, 50' AGL/1029' MSL. **Rwy 33,** barn 1159' from departure end of runway, 780' right of centerline, 50' AGL/1139' MSL, multiple trees, terrain, and road beginning 36' from departure end of runway, 84' right of centerline, up to 50' AGL/1045' MSL.

RAPID CITY, SD
RAPID CITY RGNL (RAP)
AMDT 6 07130 (FAA)
DEPARTURE PROCEDURE: **Rwy 5,** climb on heading between 255° clockwise to 210° from departure end of runway, or min. climb of 240' per NM to 8800 for all other courses. **Rwy 14,** climb on heading between 325° clockwise to 210° from departure end of runway, or min. climb of 245' per NM to 8900 for all other courses. **Rwy 23,** climb on heading between 210° counter clockwise to 055° from departure end of runway, or min. climb of 268' per NM to 8900 for all other courses. **Rwy 32,** climb on heading between 255° clockwise to 140° from departure end of runway, or min. climb of 242' per NM to 8800 for all other courses.
NOTE: **Rwy 5,** fence 133' from departure end of runway, 249' left of centerline, 10' AGL/3215' MSL. **Rwy 23,** hangar 201' from departure end of runway, 299' left of centerline, 24' AGL/3193' MSL. Fence 334' from departure end of runway, 256' right of centerline, 10' AGL/3184' MSL. **Rwy 32,** obstruction light 662' from departure end of runway, 243' left of centerline, 54' AGL/3213' MSL. Fence 1002' from departure end of runway, 751' right of centerline, 10' AGL/3233' MSL. Tower 1.9 NM from departure end of runway, 3503' right of centerline, 152' AGL/3520' MSL.

RAY S. MILLER AAF (KRYM)
CAMP RIPLEY, MN . . . . . AMDT 2, 09155
TAKE-OFF OBSTACLES: **Rwy 13**, Terrain 1270' MSL, 73' from DER, 8' left and right of centerline. Vehicle 15' AGL/1180' MSL, 765' from DER, 638' left of centerline. **Rwy 31,** Terrain 1273' MSL, 54' from DER, 9' left and right of centerline. Trees 64' AGL/1282' MSL, 798' from DER, 325' left and right of centerline.

RED WING, MN
RED WING RGNL (RGK)
AMDT 1 01137 (FAA)
DEPARTURE PROCEDURE: **Rwy 9,** 700-4 or std. with a min. climb of 270' per NM to 1700.

21 OCT 2010 to 18 NOV 2010

REDWOOD FALLS, MN

REDWOOD FALLS MUNI (RWF)
ORIG 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 23,** NA-Environmental.

NOTE: **Rwy 12,** numerous buildings beginning 388' from DER, 376' right of centerline, up to 13' AGL/1052' MSL. Numerous fences beginning 6' from DER, 329' right of centerline, up to 13' AGL/1052' MSL. Tree 62' from DER, 444' left of centerline, 11' AGL/1040' MSL. **Rwy 30,** multiple trees beginning 865' from DER, 401' right of centerline, up to 100' AGL/1119' MSL. Vehicle on road 128' from DER, 306' right of centerline, 15' AGL/ 1027' MSL.

ROCHESTER, MN

ROCHESTER INTL (RST)
ORIG 09015 (FAA)

NOTE: **Rwy 2,** road 73' from departure end of runway, 385' right of centerline, 10' AGL/1292' MSL. Tree 4377' from departure end of runway, 1132' right of centerline, 100' AGL/1399' MSL. Road 268' from departure end of runway, 366' right of centerline, 10' AGL/1290' MSL. **Rwy 13,** tree 1498' from departure end of runway, 840' right of centerline, 44' AGL/1348' MSL. **Rwy 20,** pole 259' from departure end of runway, 407' right of centerilne, 23' AGL/1338' MSL. Roads beginning 1' from departure end of runway, 231' right of centerline, up to 10' AGL/1327' MSL. **Rwy 31,** tree 4760' from departure end of runway, 1103' left of centerline, 100' AGL/1389' MSL.

ROSEAU, MN

ROSEAU MUNI-RUDY BILLBERG FIELD (ROX)
ORIG 07242 (FAA)

NOTE: **Rwy 16,** building 258' from departure end of runway, 505' right of centerline, 24' AGL/1078' MSL. Tree 1582' from departure end of runway, 337' left of centerline, 47' AGL/1101' MSL. **Rwy 34,** truck on road 41' from departure end of runway, 511' left of centerline, 15' AGL/1069' MSL.

RUSHFORD, MN

RUSHFORD MUNI (55Y)
AMDT 1 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34,** 300-1 or std. with a min. climb of 300' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 16,** climb runway heading to 1700 before turning eastbound.

ST. CLOUD, MN

ST. CLOUD RGNL (STC)
ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,** 300-1¼ or std. w/ min. climb of 201' per NM to 1300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1100' prior to DER.

NOTE: **Rwy 5,** tower 6201' from DER, 1416' left of centerline, 149' AGL/1179' MSL. Multiple trees beginning 17' from DER, 373' right of centerline, up to 59' AGL/1081' MSL. Multiple trees beginning 1752' from DER, 56' left of centerline, up to 80' AGL/1102' MSL. **Rwy 13,** tree 1654' from DER, 884' right of centerline, 61' AGL/1078' MSL. Tree 1265' from DER, 794' left of centerline, 42' AGL/1059' MSL. **Rwy 23,** trees 2109' from DER, 29' right of centerline, up to 61' AGL/1082' MSL. Trees 1725' from DER, 93' left of centerline, up to 55' AGL/1076' MSL. Fence 74' from DER, 216' left of centerline, 2' AGL, 1023' MSL. **Rwy 31,** terrain beginning 29' from DER, 50' right of centerline, up to 1083' MSL. Terrain beginning 107' from DER, 7' left of centerline, up to 1060' MSL.

ST. JAMES, MN

ST. JAMES MUNI (JYG)
ORIG 94342 (FAA)

DEPARTURE PROCEDURE: **Rwy 15,** climb to 1900 before turning eastbound.

ST. PAUL MN

LAKE ELMO (21D)
ORIG 80318 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22,** 300-1 or std. with a min. climb of 225' per NM to 1100.

ST. PAUL DOWNTOWN HOLMAN FIELD (STP)
AMDT 7 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9,** std. w/ min. climb of 346' per NM to 1500. **Rwy 13,** std. w/ min. climb of 266' per NM to 1500. **Rwy 14,** std. w/ min. climb of 216' per NM to 1500. **Rwy 27,** std. w/ min. climb of 436' per NM to 1500. **Rwy 31**, NA - obstacles. **Rwy 32,** std. w/ min. climb of 340' per NM to 3000.

DEPARTURE PROCEDURE: **Rwy 9,** climb heading 088° to 1500 before proceeding on course. **Rwy 13,** climb heading 125° to 1500 before proceeding on course.

Rwy 14, climb heading 143° to 1500 before proceeding on course. **Rwy 27,** climb heading 268° to 1700 before proceeding on course. **Rwy 32,** climb heading 323° to 1300 before proceeding on course.

NOTE: **Rwy 9,** multiple trees beginning 1265' from departure end of runway, 167' right of centerline, up to 75' AGL/1055' MSL. Multiple trees beginning 1.1 NM from departure end of runway, 124' left of centerline, up to 100' AGL/1099' MSL. Obstruction light tank 1571' from departure end of runway, 771' right of centerline, 50' AGL/811' MSL. Mobile crane 1163' from departure end of runway, 123' left of centerline, 50' AGL/ 758' MSL.

ST. PAUL DOWNTOWN HOLMAN FIELD (STP) (CON'T)

Rwy 13, Obstruction light stack 2695' from departure end of runway, 842' right of centerline, 50' AGL/820' MSL. Tree 1563' from departure end of runway, 25' right of centerline, 61' AGL/748' MSL. Multiple trees beginning 1004' from departure end of runway, 607' left of centerline, 50' AGL/767' MSL. Tower 1,725' from departure end of runway, 930' left of centerline, 47' AGL/753' MSL. Vent on building 3029' from departure end of runway, 629' right of centerline, 10' AGL/783' MSL. Multiple bushes beginning 194' from departure end of runway 88' left of centerline, 7'AGL/712' MSL. Stack 1,879' from departure end of runway, 25' left of centerline, 51' AGL/751' MSL. **Rwy 14,** multiple trees beginning 805' from departure end of runway, 2' right of centerline, up to 112' AGL/811' MSL. Multiple trees beginning 1205' from departure end of runway, 64' left of centerline, up to 80' AGL/770' MSL. Poles 2810' from departure end of runway 715' right of centerline, 91' AGL/778' MSL. **Rwy 27,** multiple trees beginning 803' from departure end of runway, 122' left of centerline, up to 100' AGL/994' MSL. Tree 783' from departure end of runway, 105' right of centerline, 25' AGL/725' MSL. Obstruction light antenna 996' from departure end of runway, 304' right of centerline, 67' AGL/ 767' MSL. Light pole 1328' from departure end of runway, 222' left of centerline, 50' AGL/747' MSL. Building 2049' from departure end of runway, 837' right of centerline, 57' AGL/761' MSL. Flagpole 2333' from departure end of runway, 199' left of centerline, 78' AGL/778' MSL. Stack 1.8 NM from departure end of runway, 635' left of centerline, 569' AGL/1279' MSL.
Rwy 32, road and vehicle 211' from departure end of runway, 482' left of centerline, 17' AGL/717' MSL. Railroad beginning 369' from departure end of runway, 329' left of centerline, up to 23' AGL/727' MSL. Pipe on DME 383' from departure end of runway, 269' right of centerline, 17' AGL/722' MSL. Tree 1152' from departure end of runway, 209' left of centerline, 44' AGL/744' MSL. Tree 1685' from departure end of runway, 277' right of centerline, 75' AGL/770' MSL. Sign 5668' from departure end of runway, 1924' left of centerline, 86' AGL/874' MSL. Trees 5614' from departure end of runway, 1796' right of centerline, 100' AGL/939' MSL. Building 5779' from departure end of runway, 1733' right of centerline, 72' AGL/910' MSL. Pole 1.0 NM from departure end of runway, 1835' right of centerline, 157' AGL/973' MSL. Building 1.1 NM from departure end of runway, 2170' left of centerline, 122' AGL/886' MSL. Multiple buildings beginning 1.1 NM from departure end of runway, 378' left of centerline, up to 142' AGL/918' MSL

SILVER BAY, MN

SILVER BAY MUNI (BFW)
ORIG 93035 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25,** 300-1.

SIOUX FALLS, SD

JOE FOSS FIELD (FSD)
AMDT 7 07242 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15,** 200-1 or std. w/ min. climb of 404' per NM to 1700. **Rwy 33,** 200-1¼ or std. w/ min. climb of 343' per NM to1700.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 030° to 2300 before turning eastbound. **Rwy 9,** climb heading 098° to 2000, then left turn direct FSD VORTAC. **Rwy 15,** climb heading 150° to 2000, then right turn direct FSD VORTAC. **Rwy 21,** climb heading 210° to 2200 before turning eastbound. **Rwy 27,** climb heading 278° to 2100 before turning eastbound. **Rwy 33,** climb heading 330° to 2200 before turning eastbound.

NOTE: **Rwy 9,** antenna 2238' from departure end of runway, 919' right of centerline, 87' AGL/1506' MSL. Pole 1256' from departure end of runway, 23' left of centerline, 43' AGL/1464' MSL. Windsock 331' from departure end of runway, 582' right of centerline, 14' AGL/1433' MSL. **Rwy 15,** antenna 3056' from departure end of runway, 983' left of centerline 117' AGL/1576' MSL. Multiple trees beginning 1211' from departure end of runway, 471' left of centerline, up to 38' AGL/1477' MSL. Tower 3102' from departure end of runway, 972' left of centerline, 61' AGL/1520' MSL. Trees and pole beginning 1746' from departure end of runway, 316' right of centerline, up to 87' AGL/ 1516' MSL. **Rwy 21,** multiple trees beginning 428' from departure end of runway, 522' right of centerline, up to 75' AGL/1497' MSL. **Rwy 27,** multiple trees beginning 2528' from departure end of runway, 1027' left of centerline, up to 100' AGL/1509' MSL. **Rwy 33,** 2 lighted radio towers 3639' from departure end of runway, 894' left of centerline, 88' AGL/1585' MSL, multiple trees beginning 5370' from departure end of runway, 891' left of centerline, up to 175' AGL/1603' MSL, pole 5724' from departure end of runway, 1701' left of centerline, 45' AGL/1594' MSL.

SPEARFISH, SD

BLACK HILLS-CLYDE ICE FIELD (SPF)

TAKE-OFF MINIMUMS: **Rwys 3, 8, 21, 35,** 700-2 (NA at night.). **Rwy 13,** 900-2 or std. with a min. climb of 300' per NM to 5400. **Rwy 17,** NA. **Rwys 26, 31,** 700-2 or std. with a min. climb of 370' per NM to 4700.

DEPARTURE PROCEDURE: **Rwys 3, 8,** turn left. Climb to 6500, intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 13,** climb runway heading to 4300, then climbing left turn to 6500 via heading 360° to intercept the 046° bearing outbound from SPF NDB. Thence... **Rwys 21, 35,** turn right. Climb to 6500 intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 26,** climbing right turn to 6500 via heading 330°, intercept the 297° bearing outbound from SPF NDB. Thence... **Rwy 31,** after take-off, intercept 297° bearing outbound from SPF NDB. Climb to 6500. Thence... THENCE...Continue climb to enroute MEA's before proceeding on course.

STAPLES, MN

STAPLES MUNI (SAZ)
AMDT 2 87211 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14,** 400-2.

STURGIS, SD
STURGIS MUNI (49B)
ORIG 96284 (FAA)
DEPARTURE PROCEDURE: **Rwy 11,** climb runway heading to 6000, then direct RAP VORTAC.
Rwy 29, climb runway heading to 5000, then climbing right turn to 6000 direct RAP VORTAC.

THIEF RIVER FALLS, MN
THIEF RIVER FALLS RGNL (TVF)
ORIG 09071 (FAA)
NOTE: **Rwy 3,** trees beginning 3058' from DER, 678' right of centerline, up to 100' AGL/1229' MSL. **Rwy 13,** trees beginning 565' from DER, 372' left of centerline, up to 100' AGL/1214' MSL. Trees beginning 1337' from DER, 531' right of centerline, up to 100' AGL/1209' MSL. **Rwy 21,** trees beginning 214' from DER, 544' right of centerline, up to 100' AGL/1204' MSL. Trees beginning 2185' from DER, 33' left of centerline, up to 100' AGL/1209' MSL. **Rwy 31,** trees beginning 126' from DER, 410' right of centerline, up to 100' AGL/1214' MSL. Trees beginning 199' from DER, 413' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 1204' from DER, 449' right of centerline, up to 100' AGL/1199' MSL. Trees beginning 1579' from DER, 495' left of centerline, up to 100' AGL/1214' MSL.

TIOGA, ND
TIOGA MUNI (D60)
ORIG 09239 (FAA)
TAKE-OFF MINIMUMS: **Rwys 3, 21,** NA-Environmental.
NOTE: **Rwy 12,** vehicle on road 1243' from DER, 78' left of centerline, 15' AGL/2304' MSL. Vehicle on road, tree and pole beginning 618' from DER, 50' right of centerline, up to 100' AGL/2419' MSL. Ground 21' from DER, 481' right of centerline, 2272' MSL. **Rwy 30,** vehicle on road 1' from DER, 144' left of centerline, 15' AGL/2256' MSL.

TOWER, MN
TOWER MUNI (12D)
ORIG 09127 (FAA)
TAKE-OFF MINIMUMS: **Rwy 8,** NA - Obstacles.
NOTE: **Rwy 26,** tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

VALLEY CITY, ND
BARNES COUNTY MUNI (BAC)
ORIG 10098 (FAA)
NOTE: **Rwy 13,** vehicle on road, 111' from DER, 356' right of centerline, 15' AGL/1396' MSL. Trees beginning 644' from DER, 242' right of centerline, up to 40' AGL/1421' MSL. **Rwy 31,** terrain beginning 32' from DER, 20' right of centerline, up to 1424' MSL. Vehicle on road 38' from DER, 285' right of centerline, 15' AGL/1418' MSL. Fence 71' from DER, 292' left of centerline, 4' AGL/1407' MSL. Terrain beginning 120' from DER, 125' left of centerline, up to 1447' MSL. Fence 198' from DER, 299' right of centerline, 4' AGL/1408' MSL. Trees beginning 365' from DER, 10' left of centerline, up to 40' AGL/1457' MSL. Tree 545' from DER, 607' right of centerline, 16' AGL/1436' MSL.

VERMILLION, SD
HAROLD DAVIDSON FIELD (VMR)
AMDT 1 09239 (FAA)
NOTE: **Rwy 12,** road 1' from DER, 200' right of centerline, up to 15' AGL/1156' MSL. Multiple trees beginning 541' from DER, 366' right of centerline, up to 62' AGL/1202' MSL. **Rwy 30,** road 79' from DER 342' left of centerline 15' AGL/1155' MSL. Road 200' from DER, 450' right of centerline, 15' AGL/1160' MSL. Fence 199' from DER, 347' left of centerline, 6' AGL/1150' MSL.

WAHPETON, ND
HARRY STERN (BWP)
ORIG 93259 (FAA)
TAKE-OFF MINIMUMS: **Rwy 3**, 300-1.

WARREN, MN
WARREN MUNI (D37)
ORIG 02108 (FAA)
DEPARTURE PROCEDURE: **Rwy 30,** climb runway heading to 1400 before turning on course.

WARROAD, MN
WARROAD INTL MEMORIAL (RRT)
ORIG 08101 (FAA)
TAKE-OFF MINIMUMS: **Rwys 4, 22,** NA-Environmental.

WASECA, MN
WASECA MUNI (ACQ)
ORIG 09015 (FAA)
NOTE: **Rwy 15,** tree 560' from departure end of runway, 560' right of centerline, 100' AGL/1239' MSL. Terrain beginning 172' from departure end of runway, on centerline, up to 1149' MSL. **Rwy 33,** tree 5042' from departure end of runway, 1533' right of centerline, 100' AGL/1259' MSL.

WATERTOWN, SD
WATERTOWN RGNL (ATY)
ORIG 07242 (FAA)
NOTE: **Rwy 12,** tree 2015' from departure end of runway, 328' right of centerline, 100' AGL/1783' MSL. **Rwy 30,** trees 2149' from departure end of runway, 10' right of centerline, 51' AGL/1810' MSL. Tree 2200' from departure end of runway, 441' left of centerline, 70' AGL/1810' MSL. Tree 2082' from departure end of runway, 121' right of centerline, 55' AGL/1806' MSL.

WATFORD CITY, ND
WATFORD CITY MUNI (S25)
AMDT 1 10154 (FAA)
TAKE-OFF MINIMUMS: **Rwy 12,** 400-1¼ or std. with a min. climb of 462' per NM to 2600. **Rwys 18, 36,** NA-Environmental.
NOTE: **Rwy 12,** tree 5528' from DER, 1819' right of centerline, up to 100' AGL/2439' MSL. Vehicle on road, trees, and terrain beginning 186' from DER, 62' right of centerline, up to 100' AGL/2258' MSL. Vehicle on road, fence, and terrain beginning 90' from DER, 43' left of centerline, up to 27' AGL/2167' MSL.
Rwy 30, trees and buildings beginning 672' from DER, 119' right of centerline, up to 41' AGL/2101' MSL. Vehicle on road, light and trees beginning 199' from DER, 128' left of centerline, up to 59' AGL/2119' MSL.

WHEATON, MN

WHEATON MUNI (ETH)
AMDT 1 92177 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16,** 300-1. **Rwys 4, 22,** NA.

WILLISTON, ND

SLOULIN FIELD INTL (ISN)
AMDT 4 10210 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29,** 400-2¼ or std. with a min. climb of 359' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 11,** climb heading 115° to 2400 before turning left.

NOTE: **Rwy 2,** trees 1212' from DER, 398' left of centerline, up to 100' AGL/2019' MSL. **Rwy 11,** trees 831' from DER, 686' right of centerline, up to 100' AGL/1999' MSL. **Rwy 20,** trees 610' from DER, 450' right of centerline, up to 100' AGL/2019' MSL. Trees 1204' from DER, 128' left of centerline, up to 100' AGL/2019' MSL. Poles beginning from DER, 61' right of centerline, up to 44' AGL/1954' MSL. Building 1811' from DER, 371' right of centerline, 65' AGL/1980' MSL. **Rwy 29,** terrain beginning 639' from DER, 179' left of centerline, up to 2150' MSL. Terrain beginning 645' from DER, 305' right of centerline, up to 2103' MSL. Fence 1341' from DER, 210' right of centerline, 10' AGL/2021' MSL. Fence beginning 966' from DER, 250' left of centerline, up to 10' AGL/2029' MSL. Obstruction light on LOC 999' from DER, on centerline, 5' AGL/2014' MSL. Antenna on building 1000' from DER, 270' right of centerline, 29' AGL/2018' MSL. CHY on building 1165' from DER, 791' right of centerline, 29' AGL/2040' MSL. Building 2345' from DER, 519' left of centerline, 29' AGL/2066' MSL. T-L tower 3480' from DER, 237' right of centerline, 77' AGL/2137' MSL. Obstruction light pole 3478' from DER, 247' right of centerline, 82' AGL/2137' MSL. Rod on obstruction light pole 3692' from DER, 392' left of centerline, 68' AGL/2147' MSL. T-L tower 3700' from DER, 403' left of centerline, 82' AGL/2147' MSL. Tree 1.2 NM from DER, 1557' right of centerline, 27' AGL/2186' MSL. Tree 1.9 NM from DER, 2091' right of centerline, 100' AGL/2309' MSL.

WILLMAR, MN

WILLMAR MUNI-JOHN L. RICE FIELD (BDH)
ORIG 06327 (FAA)

NOTE: **Rwy 31,** tree 1338' from departure end of runway, 740' left of centerline, 67' AGL/1193' MSL.

WINNER, SD

WINNER RGNL (ICR)
AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21,** NA-Environmental.

WINONA, MN

WINONA MUNI-MAX CONRAD FIELD (ONA)
AMDT 3 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12,** 300-1 or std. with a min. climb of 320' per NM to 800. **Rwy 17,** 600-1 or std. with a min. climb of 500' per NM to 1300. **Rwy 30,** 500-1 or std. with a min. climb of 500' per NM to 1200. **Rwy 35,** 700-1 or std. with a min. climb of 390' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 12,** climb to 1900 via ONA R-110 before turning. **Rwys 17, 30, 35,** climb runway heading to 1900 before turning.

WORTHINGTON, MN

WORTHINGTON MUNI (OTG)
AMDT 2 88154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17,** 300-1.

DEPARTURE PROCEDURE: **Rwys 11, 17, 29, 35,** when weather is below 800-1 climb runway heading to 2400 before turning.

YANKTON, SD

CHAN GURNEY MUNI (YKN)
AMDT 2 85003 (FAA)

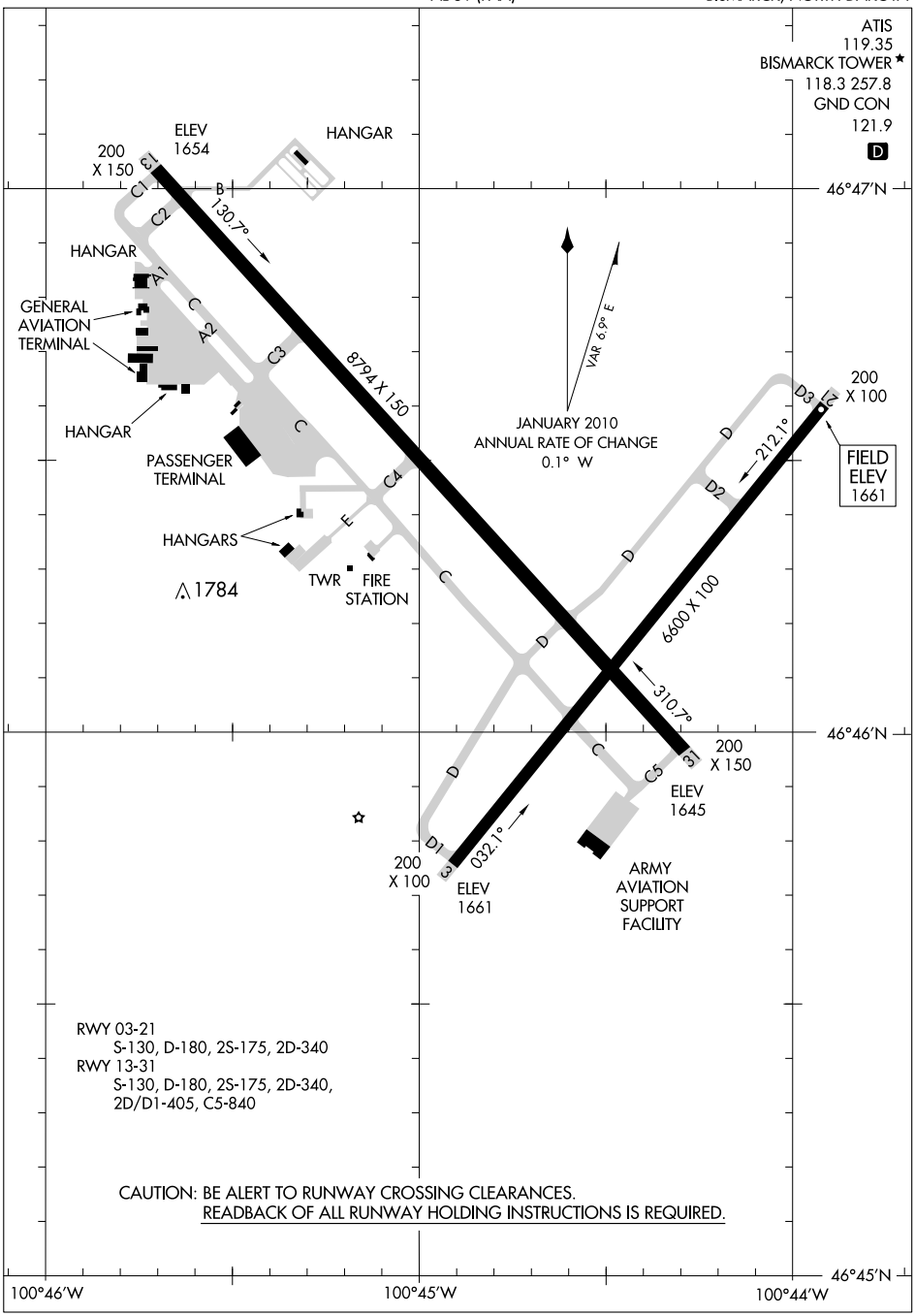
TAKE-OFF MINIMUMS: **Rwy 31,** 300-1.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19, 31,** climb runway heading to 2400 before turning.

AIRPORT DIAGRAM

AL-51 (FAA)

BISMARCK MUNI (BIS)
BISMARCK, NORTH DAKOTA



NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

AIRPORT DIAGRAM
BISMARCK, NORTH DAKOTA
BISMARCK MUNI (BIS)
10210

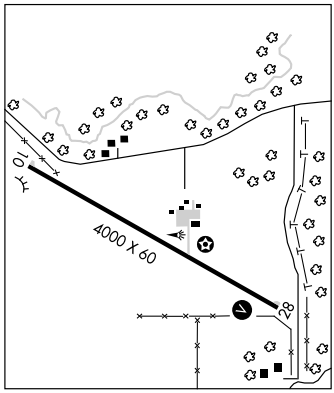
BEULAH (95D) 2 SW UTC−7(−6DT) N47°15.05′ W101°48.84′ **BILLINGS**
1791 B S4 **FUEL** 100LL, JET A1 NOTAM FILE GFK **L–14F**

RWY 10–28: H4000X60 (ASPH) S–12.5 LIRL (NSTD)
RWY 10: Tree. **RWY 28:** SAVASI(S2L)—GA 3.0° TCH 25′. Road.

AIRPORT REMARKS: Attended Mon–Fri 1500–0000Z‡. Arpt manager on call continuously 710–873–2311/4100. For fuel call 701–873–4100/2259/2311. Snow removal irregular, confirm winter conditions with arpt manager 701–873–2311/4100. Stacks 600′ AGL 6 mile N unlgtd. Lgtd stack 498′ AGL located 1.8 NM south. 250′ AGL stack with invisible flame to 250′ above stack located 8 NM NNW. Arpt located in river valley with 200′ ridges surrounding arpt 1500′ from thld. Rwy 10–28 NSTD LIRL 20′ from edge of asph surface. ACTIVATE LIRL Rwy 10–28, rotating bcn and SAVASI Rwy 28—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.
DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 045° 45.8 NM to fld. 2520/14E. **HIWAS.**



BISMARCK MUNI (BIS) 3 SE UTC−6(−5DT) N46°46.36′ W100°44.75′ **TWIN CITIES**
1661 B S4 **FUEL** 100LL, JET A OX 1, 2 Class I, ARFF Index B NOTAM FILE BIS **H–2H, L–14F**

RWY 13–31: H8794X150 (ASPH–GRVD) S–130, D–180, 2S–175, 2D–340, 2D/D1–405, C5–840 HIRL **IAP, AD**
RWY 13: MALS. PAPI(P4L)—GA 3.0° TCH 58′. Pole.
RWY 31: MALSR. PAPI(P4L)—GA 3.0° TCH 48′.

RWY 03–21: H6600X100 (ASPH–GRVD) S–130, D–180, 2S–175, 2D–340 HIRL
RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 48′.
RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 48′.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 03:	TORA–6600	TODA–6600	ASDA–6600	LDA–6600
RWY 13:	TORA–8794	TODA–8794	ASDA–8794	LDA–8794
RWY 21:	TORA–6600	TODA–6600	ASDA–6600	LDA–6600
RWY 31:	TORA–8794	TODA–8794	ASDA–8794	LDA–8794

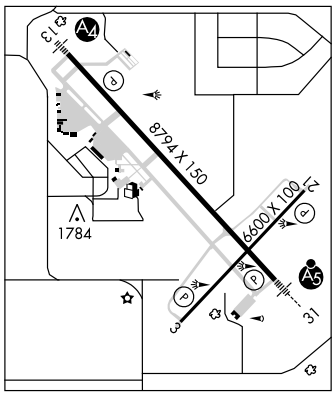
AIRPORT REMARKS: Attended continuously. For fuel call 701–223–4754 or 701–258–5024. Deer, coyotes and birds on and invof arpt. Rwy 31 touchdown rwy visual range avbl. When twr clsd HIRL Rwy 13–31 and Rwy 03–21 preset med ints, PAPI Rwy 13, Rwy 31, Rwy 03, and Rwy 21 on, ACTIVATE MALS Rwy 13 and MALSR Rwy 31—CTAF.

WEATHER DATA SOURCES: ASOS (701) 255–7563. **HIWAS** 116.5 BIS. LAWRS.

COMMUNICATIONS: CTAF 118.3 **ATIS** 119.35
UNICOM 122.95
RCO 122.2 (GRAND FORKS RADIO)
Ⓡ **APP/DEP CON** 126.3 (1200–0600Z‡)
Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 126.8 (0600–1200Z‡)
TOWER 118.3 (1200–0600Z‡) **GND CON** 121.9

AIRSPACE: CLASS D svc 1200–0600Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.
(L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 269° 3.4 NM to fld. 1841/12E. **HIWAS.**
JADAN NDB (LOM) 230 BI N46°41.88′ W100°38.86′ 307° 6.1 NM to fld. Unmonitored.
ILS 110.3 I–BIS Rwy 31 Class IB. LOM JADAN NDB. ILS unmonitored when twr clsd.
ILS 111.5 I–BZX Rwy 13 Class IE. ILS unmonitored when twr clsd.
ASR (1200–0600Z‡)



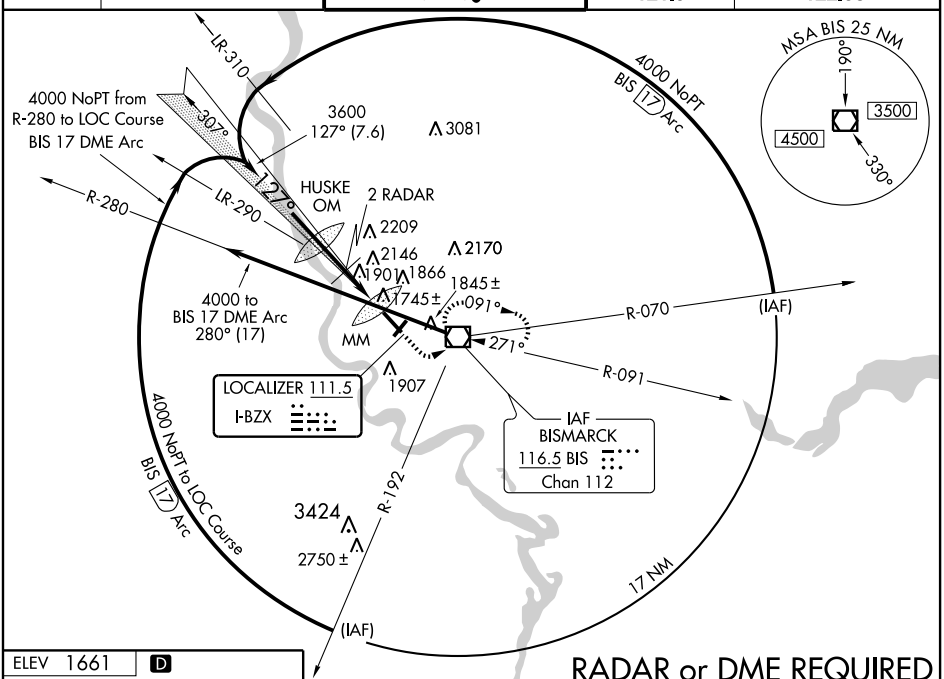
ILS or LOC RWY 13
BISMARCK MUNI (BIS)

LOC I-BZX	APP CRS	Rwy ldg / TDZE / Apt Elev
111.5	127°	8794 / 1655 / 1661

ASR — Inoperative table does not apply to MALS Rwy 13.

MALS — MISSED APPROACH: Climb to 2500 then climbing left turn to 3600 direct BIS VOR/DME and hold.

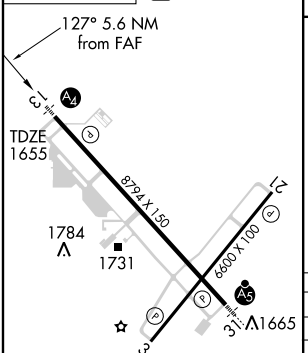
ATIS	BISMARCK APP CON ★	BISMARCK TOWER ★	GND CON	UNICOM
119.35	126.3 298.9	118.3 (CTAF) L 257.8	121.9	122.95



NC-1, 21 OCT 2010 to 18 NOV 2010

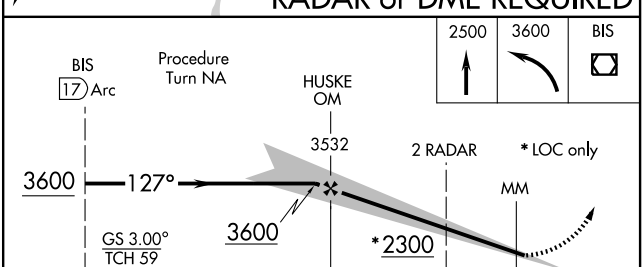
RADAR or DME REQUIRED

ELEV 1661 D



REIL Rwys 3 and 21
HIRL Rwys 3-21 and 13-31

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52



CATEGORY	A	B	C	D
S-ILS 13	1854-¾ 200 (200-¾)			
S-LOC 13	2300-1 645 (700-1)		2300-1¾ 645 (700-1¾)	2300-2 645 (700-2)
CIRCLING	2300-1 639 (700-1)		2300-1¾ 639 (700-1¾)	2300-2 639 (700-2)
RADAR FIX MINIMUMS				
S-LOC 13	2100-1 445 (500-1)		2100-1¼ 445 (500-1¼)	2100-1½ 445 (500-1½)

LOC I-BIS	APP CRS	Rwy ldg	8794
110.3	307°	TDZE	1645
		Apt Elev	1661

ILS or LOC RWY 31
BISMARCK MUNI (BIS)

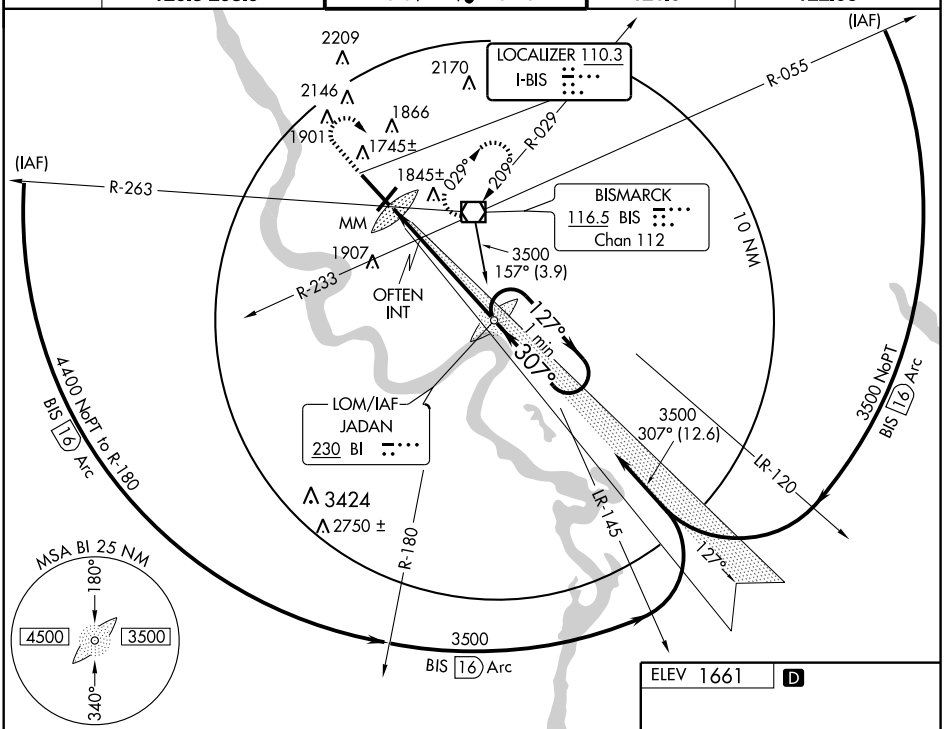
T A ASR

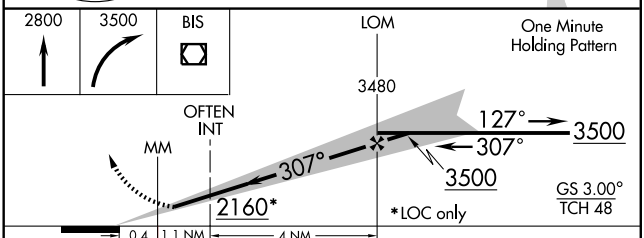
**RVR 1800 authorized with the use of FD or AP or HUD to DA.

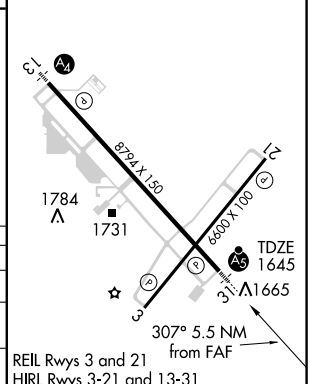
MALSR A5

MISSED APPROACH: Climb to 2800 then climbing right turn to 3500 direct BIS VOR/DME and hold.

ATIS	BISMARCK APP CON★	BISMARCK TOWER★	GND CON	UNICOM
119.35	126.3 298.9	118.3 (CTAF) L 257.8	121.9	122.95







CATEGORY	A	B	C	D
S-ILS 31	**1845/24 200 (200-½)			
S-LOC 31	2160/24 515 (500-½)		2160/50 515 (500-1)	2160/60 515 (500-1¼)
CIRCLING	2180-1 519 (600-1)	2200-1 539 (600-1)	2220-1½ 559 (600-1½)	2280-2 619 (700-2)
OFTEN INT MINIMUMS				
S-LOC 31	2000/24 355 (400-½)			2000/40 355 (400-¾)

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 63099 W03A	APP CRS 028°	Rwy ldg 6600 TDZE 1661 Apt Elev 1661

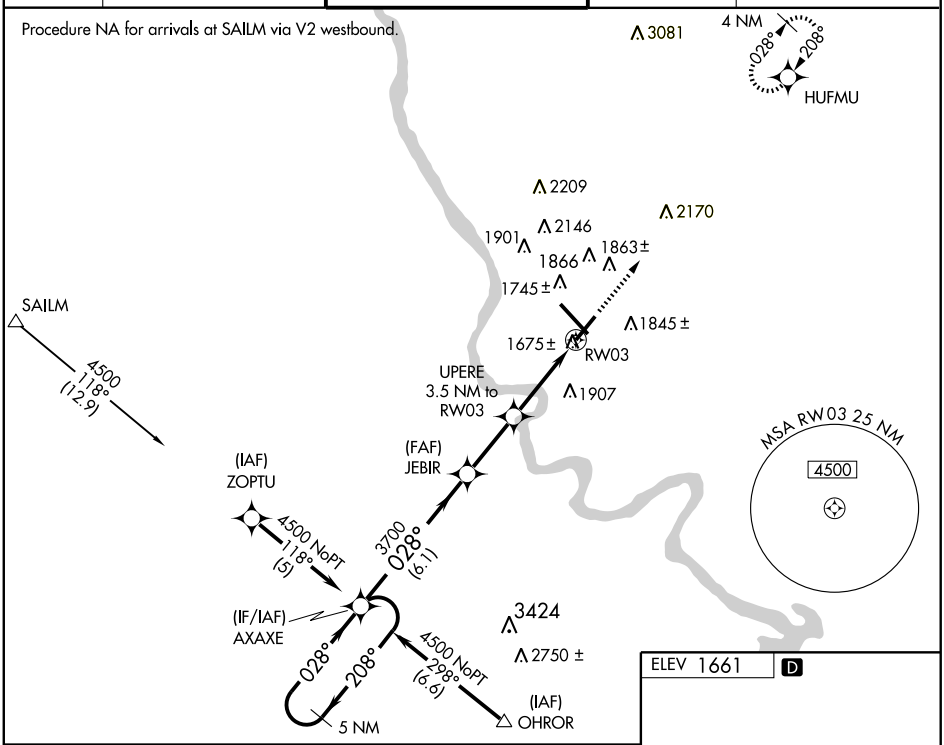
RNAV (GPS) RWY 3
BISMARCK MUNI (BIS)

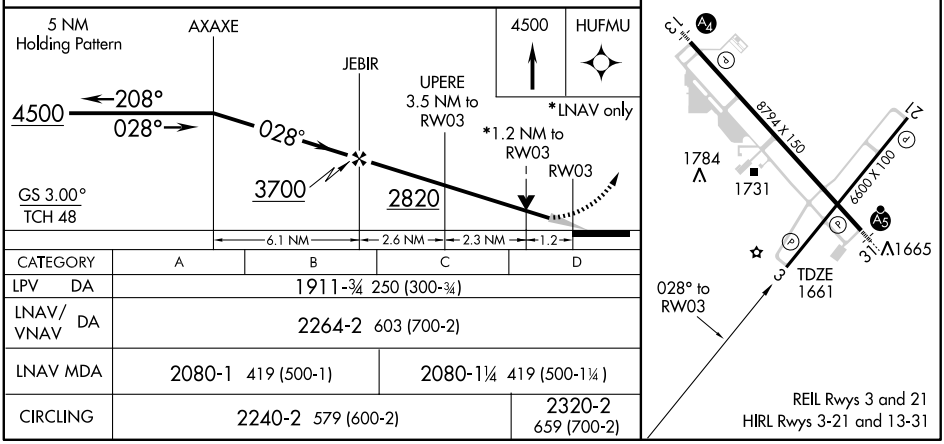
ASR

If local altimeter setting not received procedure NA.
Baro-VNAV NA below -18°C (0°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4500 direct HUFMU and hold.

ATIS	BISMARCK APP CON ★	BISMARCK TOWER ★	GND CON	UNICOM
119.35	126.3 298.9	118.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	1911-¾ 250 (300-¾)			
LNAV/VNAV DA	2264-2 603 (700-2)			
LNAV MDA	2080-1 419 (500-1)		2080-1¼ 419 (500-1¼)	
CIRCLING	2240-2 579 (600-2)			2320-2 659 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	6600
208°	TDZE	1661
	Apt Elev	1661

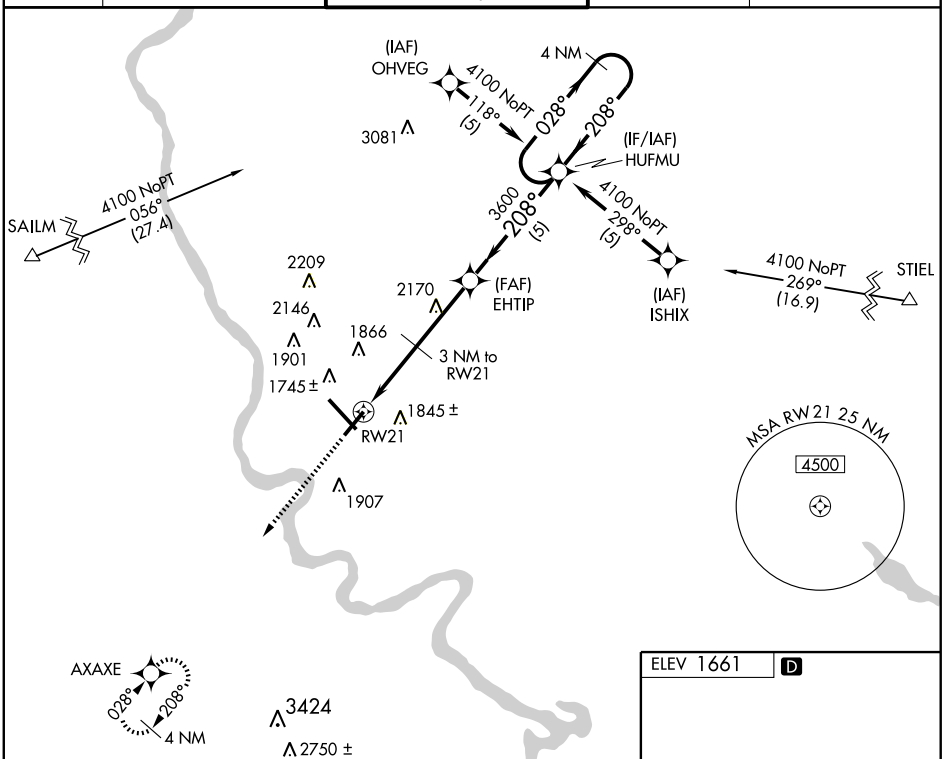
RNAV (GPS) RWY 21
BISMARCK MUNI (BIS)

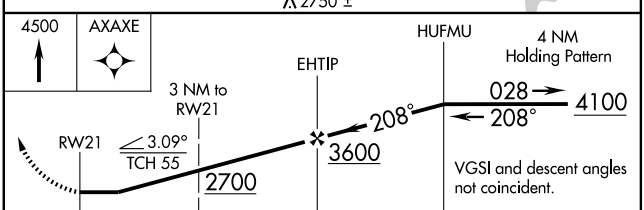
T NA ASR

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4500 direct AXAXE WP and hold.

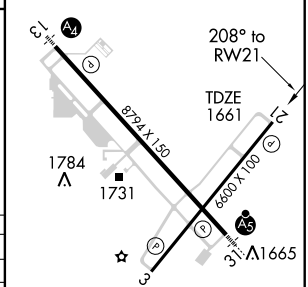
ATIS	BISMARCK APP CON★	BISMARCK TOWER★	GND CON	UNICOM
119.35	126.3 298.9	118.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2120-1 459 (500-1)		2120-1¼ 459 (500-1¼)	2120-1½ 459 (500-1½)
CIRCLING	2180-1 519 (600-1)	2200-1 539 (600-1)	2220-1½ 559 (600-1½)	2240-2 579 (600-2)

ELEV 1661 D



REIL Rwys 3 and 21
HIRL Rwys 3-21 and 13-31

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 56599 W31A	APP CRS 307°	Rwy ldg 8794 TDZE 1645 Apt Elev 1661

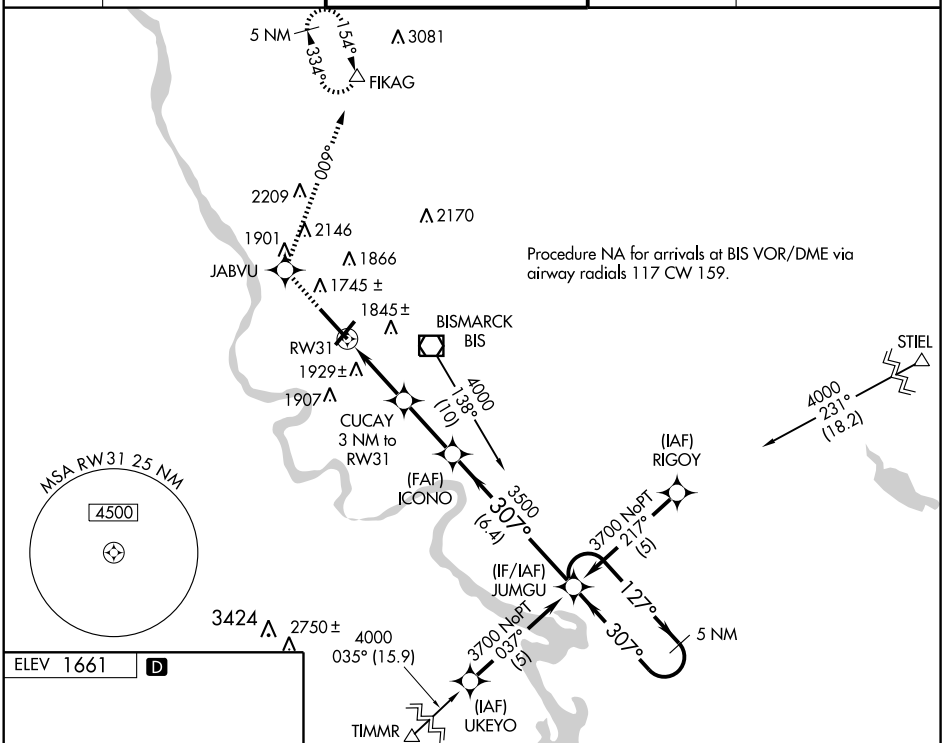
RNAV (GPS) RWY 31
BISMARCK MUNI (BIS)

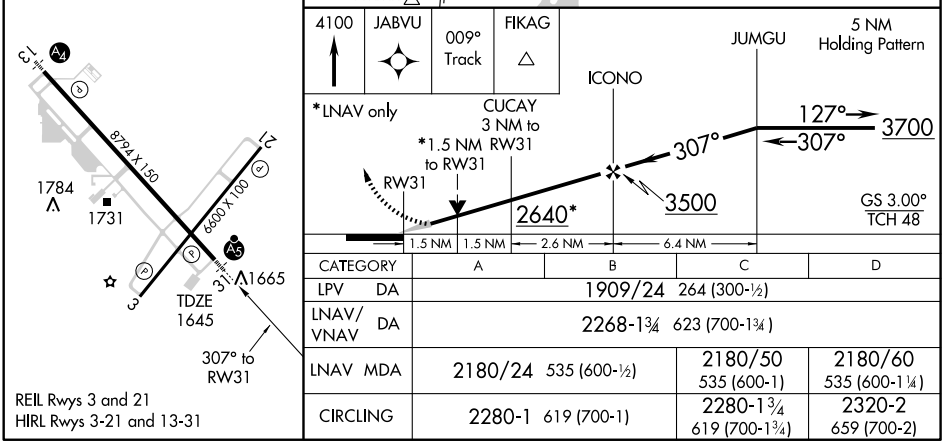
ASR: For inoperative MALSR, increase LPV all Cats visibility to 1. Baro-VNAV NA below -18°C (0°F). DME/DME RNP-0.3 NA. If local altimeter setting not received, procedure NA.

MALSR

MISSED APPROACH: Climb to 4100 direct JABVU and via 009° track to FIKAG and hold.

ATIS	BISMARCK APP CON★	BISMARCK TOWER★	GND CON	UNICOM
119.35	126.3 298.9	118.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	1909/24 264 (300-½)			
LNAV/VNAV DA	2268-1¾ 623 (700-1¾)			
LNAV MDA	2180/24 535 (600-½)		2180/50 535 (600-1)	2180/60 535 (600-1¼)
CIRCLING	2280-1 619 (700-1)		2280-1¾ 619 (700-1¾)	2320-2 659 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

AL-51 (FAA)

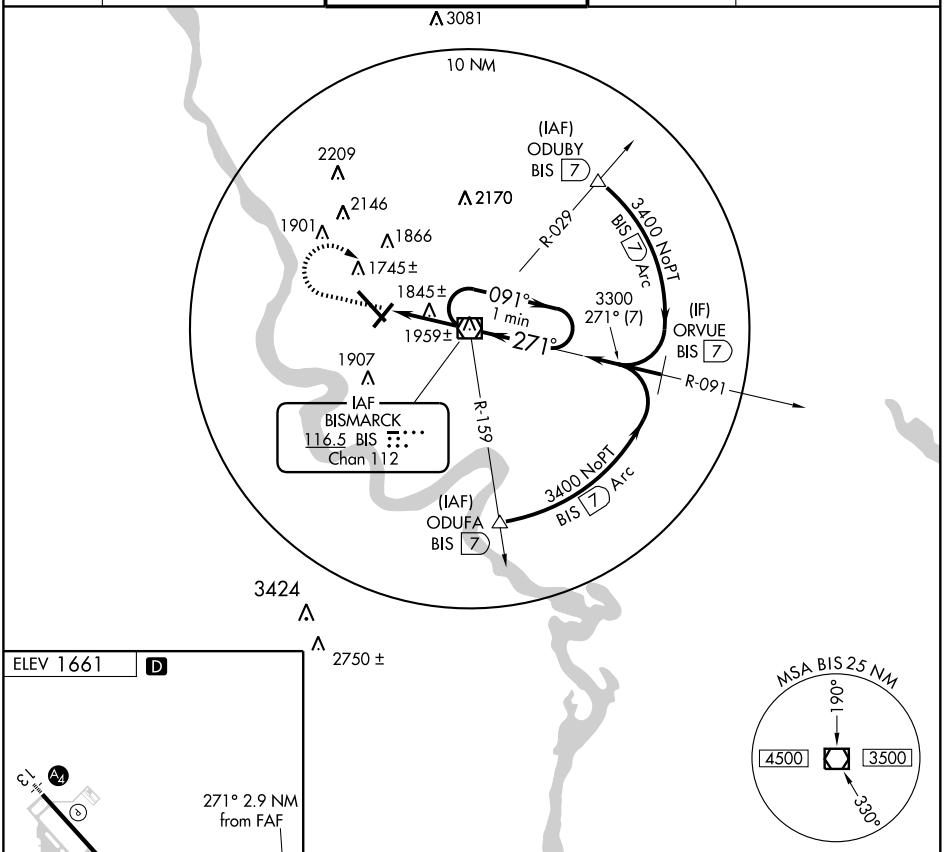
VOR-A
BISMARCK MUNI (BIS)

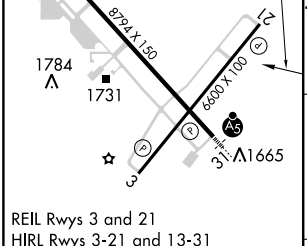
VOR/DME BIS 116.5 Chan 112	APP CRS 271°	Rwy ldg N/A TDZE N/A Apt Elev 1661

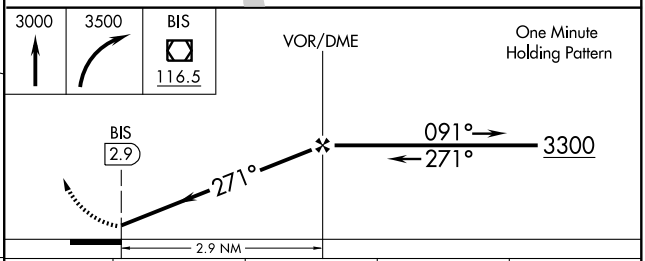
ASR — If local altimeter setting not received procedure not authorized.

MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct BIS VOR/DME and hold.

ATIS	BISMARCK APP CON ★	BISMARCK TOWER ★	GND CON	UNICOM
119.35	126.3 298.9	118.3 (CTAF) L 257.8	121.9	122.95







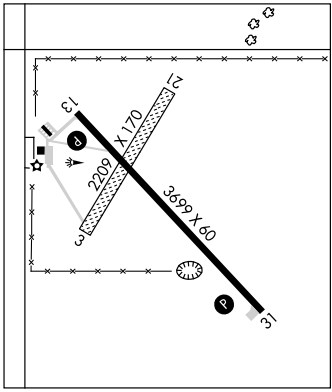
FAF to MAP 2.9 NM					
Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

CATEGORY	A	B	C	D
CIRCLING	2240-1 579 (600-1)		2240-1½ 579 (600-1½)	2320-2 659 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

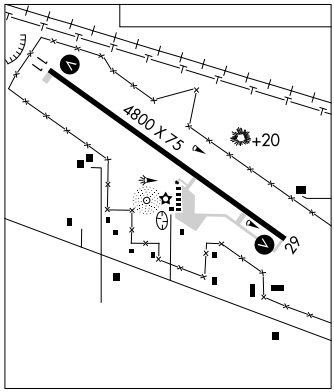
NC-1, 21 OCT 2010 to 18 NOV 2010

BOTTINEAU MUNI (DØ9) 1 E UTC−6(−5DT) N48°49.83′ W100°25.04′ **TWIN CITIES**
1681 B S4 **FUEL** 100LL TPA—2681(1000) NOTAM FILE GFK **L–14F**
RWY 13–31: H3699X60 (ASPH) S–12.5 MIRL 0.5% up NW **IAP**
RWY 13: PAPI(P2R)–GA 3.0° TCH 34′. Road.
RWY 31: PAPI(P2L)–GA 3.0° TCH 30′.
RWY 03–21: 2209X170 (TURF) 0.7% up NE
RWY 03: Trees. **RWY 21:** Trees.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat–Sun on call. For attendant Sat–Sun call 701–228–5103. For fuel ctc 701–228–5265 after hrs 701–228–5103/2983. Rwy 03–21 CLOSED winter months due to lack of snow removal. Confirm winter conditions before use after major winter storm with arpt manager call 701–228–5265. Migratory waterfowl on and invof arpt Sep–Nov. Rwy 03 and Rwy 21 marked with black/white cones. ACTIVATE MIRL Rwy 13–31 and PAPI Rwy 13 and Rwy 31—CTAF.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **MINOT APP/DEP CON** 119.6 (Opr 24 hrs from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡.), other hrs ctc **MINNEAPOLIS CENTER APP/DEP CON** 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE MOT.
MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62′ W101°17.22′ 032° 48.7 NM to fld. 1691/13E. **HIWAS.**
COMM/NAV/WEATHER REMARKS: Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1200–1400Z‡.



BOWBELLS MUNI (5B4) 1 N UTC−6(−5DT) N48°48.58′ W102°14.73′ **BILLINGS**
1955 NOTAM FILE GFK
RWY 08–26: 2900X200 (TURF) LIRL (NSTD)
RWY 08: Trees. **RWY 26:** Thld dsplcd 460′. Railroad.
AIRPORT REMARKS: Unattended. Irregular snow removal; confirm rwy condition prior to use; call 701–377–2384/2386/2971. Rwy irregular and soft when wet with water ponding possible. Rwy 26 dsplcd thld marked only with dalgt boundary 3′ metal markers. Rwy 08–26 NSTD LIRL; green thld lgts.
COMMUNICATIONS: CTAF 122.9

BOWMAN MUNI (BPP) 2 W UTC−7(−6DT) N46°11.22′ W103°25.69′ **BILLINGS**
2958 B S4 **FUEL** 100, JET A NOTAM FILE BPP **L–13E**
RWY 11–29: H4800X75 (ASPH–AFSC) S–12.5 MIRL **IAP**
RWY 11: VASI(V2L)—GA 3.0° TCH 25′. Railroad. Rgt tfc.
RWY 29: VASI(V2L)—GA 3.0° TCH 25′. Tree.
AIRPORT REMARKS: Attended Mon–Fri 1500–0000Z‡. For attendant and fuel other hours call 701–523–5504/3544/6889. For fuel after hours call 701–523–5504/3544/6889. Conc fuel pad for heavy twin acft parking avbl. Confirm snow removal with arpt manager after major storm. VASI Rwys 11 and 29 ops dusk–0100Z‡. MIRL Rwy 11–29 preset on low ints dusk–0100Z‡, to increase ints—CTAF. After 0100Z‡ ACTIVATE MIRL Rwy 11–29 and VASI Rwys 11 and 29—CTAF.
WEATHER DATA SOURCES: AWOS–3 374 BOD (701) 523–3412.
COMMUNICATIONS: CTAF/UNICOM 122.8
RCO 122.4 (GRAND FORKS RADIO)
RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.
DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 200° 48.7 NM to fld. 2520/14E. **HIWAS.**
NDB (MHW) 374 BOD N46°11.11′ W103°25.73′ at fld. **AWOS–3.** NOTAM FILE GFK.



BRECKENRIDGE–WAHPETON N46°14.69′ W96°36.22′ NOTAM FILE GFK. **TWIN CITIES**
NDB (MHW) 233 BWP at Harry Stern. **L–14H**

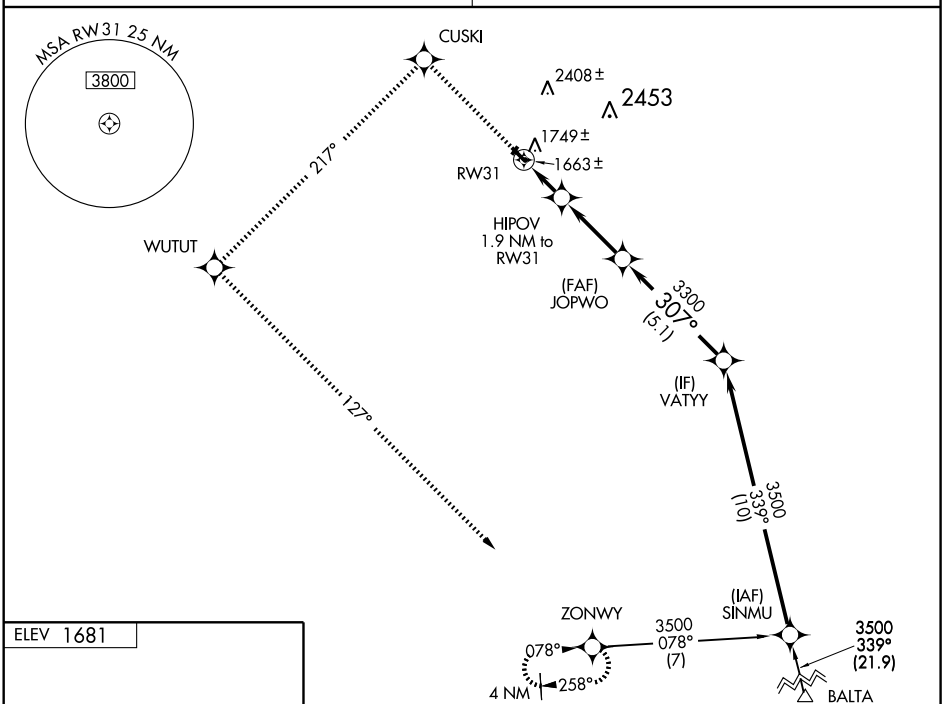
WAAS CH 78217 W31A	APP CRS 307°	Rwy ldg 3699 TDZE 1675 Apt Elev 1681

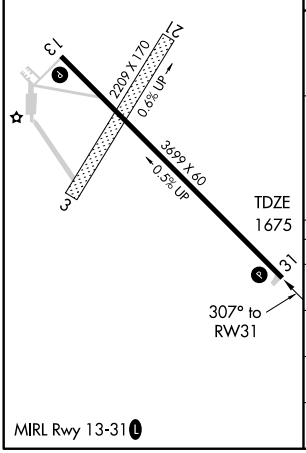
RNAV (GPS) RWY 31
BOTTINEAU MUNI (D09)

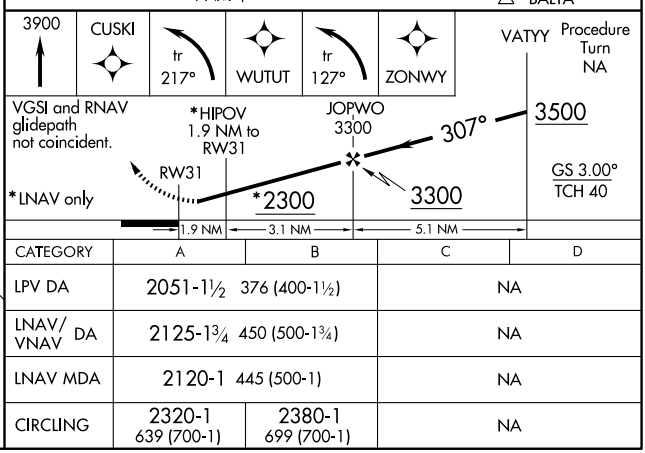
Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Minot air force base altimeter setting, when not received; use Devils Lake altimeter setting and increase all DA/MDA 100 ft, increase LPV, LNAV/VNAV Cats A/B and Circling Cat B visibility ¼ mile.

MISSED APPROACH: Climb to 3900 direct CUSKI and left turn on track 217° to WUTUT and left turn on track 127° to ZONWY and hold.

MINOT APP CON*	UNICOM
119.6 363.8	122.8 (CTAF) L





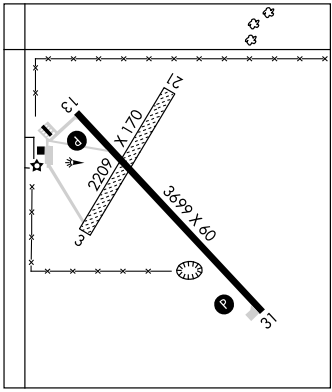


CATEGORY	A	B	C	D
LPV DA	2051-1½ 376 (400-1½)		NA	
LNAV/VNAV DA	2125-1¾ 450 (500-1¾)		NA	
LNAV MDA	2120-1 445 (500-1)		NA	
CIRCLING	2320-1 639 (700-1)	2380-1 699 (700-1)	NA	

NC-1, 21 OCT 2010 to 18 NOV 2010

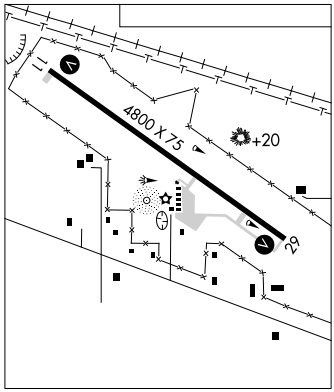
NC-1, 21 OCT 2010 to 18 NOV 2010

BOTTINEAU MUNI (DØ9) 1 E UTC−6(−5DT) N48°49.83′ W100°25.04′ **TWIN CITIES**
1681 B S4 **FUEL** 100LL TPA—2681(1000) NOTAM FILE GFK **L–14F**
RWY 13–31: H3699X60 (ASPH) S–12.5 MIRL 0.5% up NW **IAP**
RWY 13: PAPI(P2R)–GA 3.0° TCH 34′. Road.
RWY 31: PAPI(P2L)–GA 3.0° TCH 30′.
RWY 03–21: 2209X170 (TURF) 0.7% up NE
RWY 03: Trees. **RWY 21:** Trees.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat–Sun on call. For attendant Sat–Sun call 701–228–5103. For fuel ctc 701–228–5265 after hrs 701–228–5103/2983. Rwy 03–21 CLOSED winter months due to lack of snow removal. Confirm winter conditions before use after major winter storm with arpt manager call 701–228–5265. Migratory waterfowl on and invof arpt Sep–Nov. Rwy 03 and Rwy 21 marked with black/white cones. ACTIVATE MIRL Rwy 13–31 and PAPI Rwy 13 and Rwy 31—CTAF.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **MINOT APP/DEP CON** 119.6 (Opr 24 hrs from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡.), other hrs ctc **MINNEAPOLIS CENTER APP/DEP CON** 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE MOT.
MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62′ W101°17.22′ 032° 48.7 NM to fld. 1691/13E. **HIWAS.**
COMM/NAV/WEATHER REMARKS: Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1200–1400Z‡.



BOWBELLS MUNI (5B4) 1 N UTC−6(−5DT) N48°48.58′ W102°14.73′ **BILLINGS**
1955 NOTAM FILE GFK
RWY 08–26: 2900X200 (TURF) LIRL (NSTD)
RWY 08: Trees. **RWY 26:** Thld dsplcd 460′. Railroad.
AIRPORT REMARKS: Unattended. Irregular snow removal; confirm rwy condition prior to use; call 701–377–2384/2386/2971. Rwy irregular and soft when wet with water ponding possible. Rwy 26 dsplcd thld marked only with dalgt boundary 3′ metal markers. Rwy 08–26 NSTD LIRL; green thld lgts.
COMMUNICATIONS: CTAF 122.9

BOWMAN MUNI (BPP) 2 W UTC−7(−6DT) N46°11.22′ W103°25.69′ **BILLINGS**
2958 B S4 **FUEL** 100, JET A NOTAM FILE BPP **L–13E**
RWY 11–29: H4800X75 (ASPH–AFSC) S–12.5 MIRL **IAP**
RWY 11: VASI(V2L)—GA 3.0° TCH 25′. Railroad. Rgt tfc.
RWY 29: VASI(V2L)—GA 3.0° TCH 25′. Tree.
AIRPORT REMARKS: Attended Mon–Fri 1500–0000Z‡. For attendant and fuel other hours call 701–523–5504/3544/6889. For fuel after hours call 701–523–5504/3544/6889. Conc fuel pad for heavy twin acft parking avbl. Confirm snow removal with arpt manager after major storm. VASI Rwys 11 and 29 ops dusk–0100Z‡. MIRL Rwy 11–29 preset on low ints dusk–0100Z‡, to increase ints—CTAF. After 0100Z‡ ACTIVATE MIRL Rwy 11–29 and VASI Rwys 11 and 29—CTAF.
WEATHER DATA SOURCES: AWOS–3 374 BOD (701) 523–3412.
COMMUNICATIONS: CTAF/UNICOM 122.8
RCO 122.4 (GRAND FORKS RADIO)
RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.
DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 200° 48.7 NM to fld. 2520/14E. **HIWAS.**
NDB (MHW) 374 BOD N46°11.11′ W103°25.73′ at fld. **AWOS–3.** NOTAM FILE GFK.



BRECKENRIDGE–WAHPETON N46°14.69′ W96°36.22′ NOTAM FILE GFK. **TWIN CITIES**
NDB (MHW) 233 BWP at Harry Stern. **L–14H**

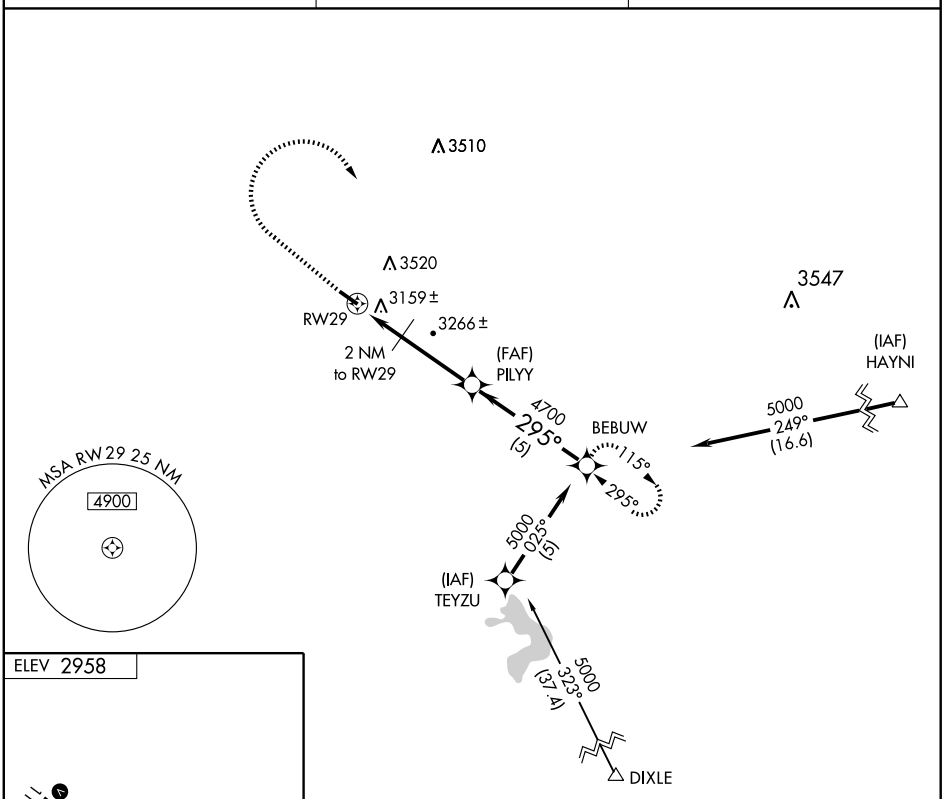
APP CRS 295°	Rwy ldg	4800
	TDZE	2958
	Apt Elev	2958

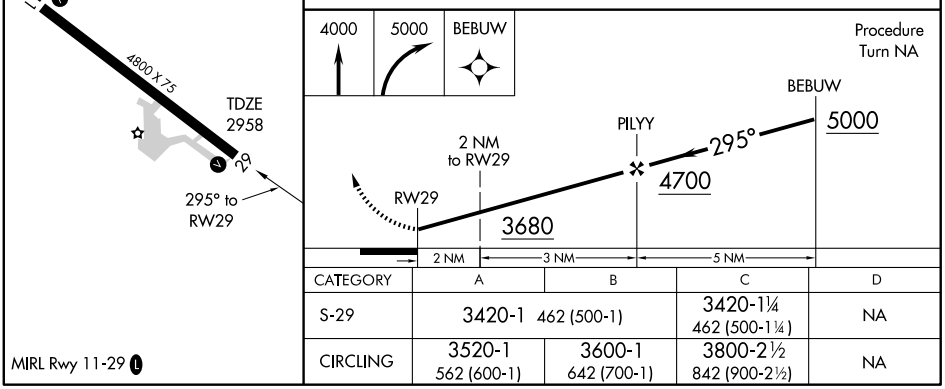
GPS RWY 29
BOWMAN MUNI (BPP)

NA

MISSED APPROACH: Climb to 4000 then climbing right turn to 5000 direct BEBUW WP and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
374	122.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-29	3420-1 462 (500-1)		3420-1¼ 462 (500-1¼)	NA
CIRCLING	3520-1 562 (600-1)	3600-1 642 (700-1)	3800-2½ 842 (900-2½)	NA

MIRL Rwy 11-29 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

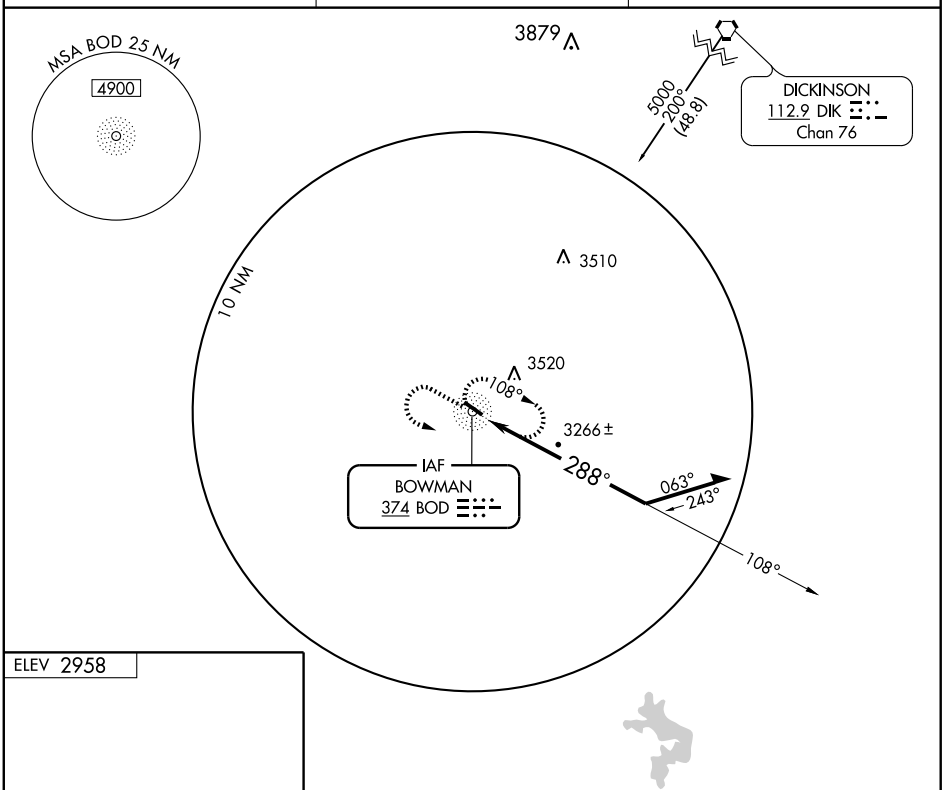
NDB BOD	APP CRS	Rwy ldg	4800
374	288°	TDZE	2958
		Apt Elev	2958

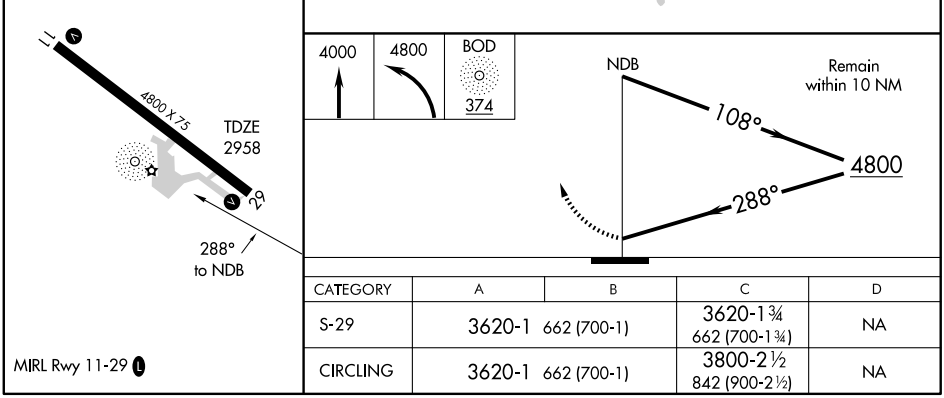
NDB RWY 29
BOWMAN MUNI (BPP)

NA

MISSED APPROACH: Climb to 4000 then climbing left turn to 4800 direct BOD NDB and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
374	122.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-29	3620-1 662 (700-1)		3620-1¾ 662 (700-1¾)	NA
CIRCLING	3620-1 662 (700-1)		3800-2½ 842 (900-2½)	NA

MIRL Rwy 11-29 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

CANDO MUNI (9D7) 1 W UTC−6(−5DT) N48°28.80′ W99°14.18′ **TWIN CITIES L–14G**

1481 B **FUEL** 100LL NOTAM FILE GFK

RWY 16–34: H3500X60 (ASPH) MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 25′. **RWY 34:** PAPI(P2L)—GA 3.0° TCH 25′.

AIRPORT REMARKS: Unattended. Migratory waterfowl in vicinity of arpt Mar–Apr and Sep–Oct. Irregular snow removal winter months, confirm winter condition prior to use with arpt manager. MIRL Rwy 16–34, PAPI Rwy 16 and Rwy 34 opr dusk–0400Z‡, after 0400Z‡ ACTIVATE—CTAF.

WEATHER DATA SOURCES: AWOS–3 118.125 (701) 968–3625.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 322° 25.5 NM to fld. 1448/7E.

CARRINGTON MUNI (46D) 1 W UTC−6(−5DT) N47°27.07′ W99°09.08′ **TWIN CITIES L–14G IAP**

1607 B **FUEL** 100LL NOTAM FILE GFK

RWY 13–31: H4198X75 (ASPH) MIRL

RWY 13: PAPI(P2L)—GA 3.0° TCH 25′. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25′. Trees.

AIRPORT REMARKS: Unattended. Self svc 24hr credit card fuel avbl. For snow removal information; ctc city hall 701–652–2911. Numerous agriculture ops Jun–Aug. N apron CLOSED to acft over 1000 lbs. Rwy 13 has 6′ ditch 120′ L of extended centerline outbound fm thld. MIRL Rwy 13–31 opr dusk–0600Z‡, after 0600Z‡ ACTIVATE MIRL Rwy 13–31, PAPI Rwy 13 and Rwy 31—CTAF.

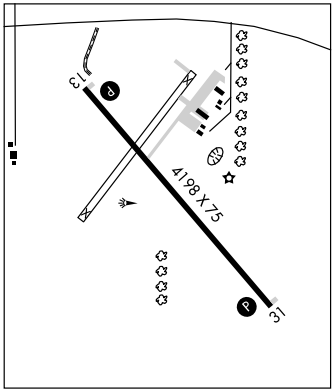
WEATHER DATA SOURCES: AWOS–3 118.575 (701) 652–1875.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 124.2

RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 318° 36.6 NM to fld. 1493/10E. **HIWAS.**



CASSELTON ROBERT MILLER RGNL (5N8) 4 S UTC−6(−5DT) N46°51.24′ W97°12.47′ **TWIN CITIES L–14G IAP**

933 S4 **FUEL** 100LL NOTAM FILE GFK

RWY 13–31: H3900X75 (CONC) S–12.5 MIRL

RWY 13: PAPI(P2R)—GA 2.5° TCH 20′. Road.

RWY 31: REIL. PAPI(P2L)—GA 2.5° TCH 20′. Road.

AIRPORT REMARKS: Attended Oct–May Mon–Sat 1400–2300Z‡, Jun–Sep Mon–Sat 1400–0400Z‡, Sun on call. For attendance after hours call 701–347–4680/5519. Self svc credit card 100LL fuel avbl 24 hrs. Confirm winter conditions and snow removal with arpt manager, call 701–347–4680 between 1400–2300Z‡ daily. Numerous agriculture operations May–Oct. Rwy 13–31 parallel twy marked with reflectors. Acft paint shop avbl 701–347–5262. Rwy 31 PAPI OTS indef. ACTIVATE MIRL Rwy 13–31 and PAPI Rwy 13 and Rwy 31 and REIL Rwy 31—CTAF.

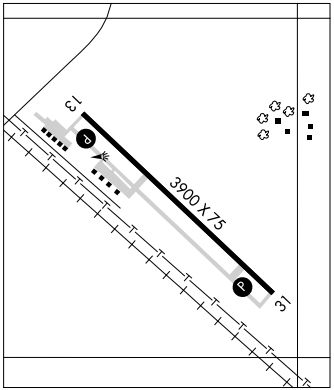
COMMUNICATIONS: CTAF/UNICOM 122.8.

Ⓡ **FARGO APP/DEP CON** 120.4 (1200–0500Z‡)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.35 (Mon–Fri 0500–1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 283° 15.9 NM to fld. 910/9E. **HIWAS.**



APP CRS	Rwy ldg	4198
313°	TDZE	1604
	Apt Elev	1606

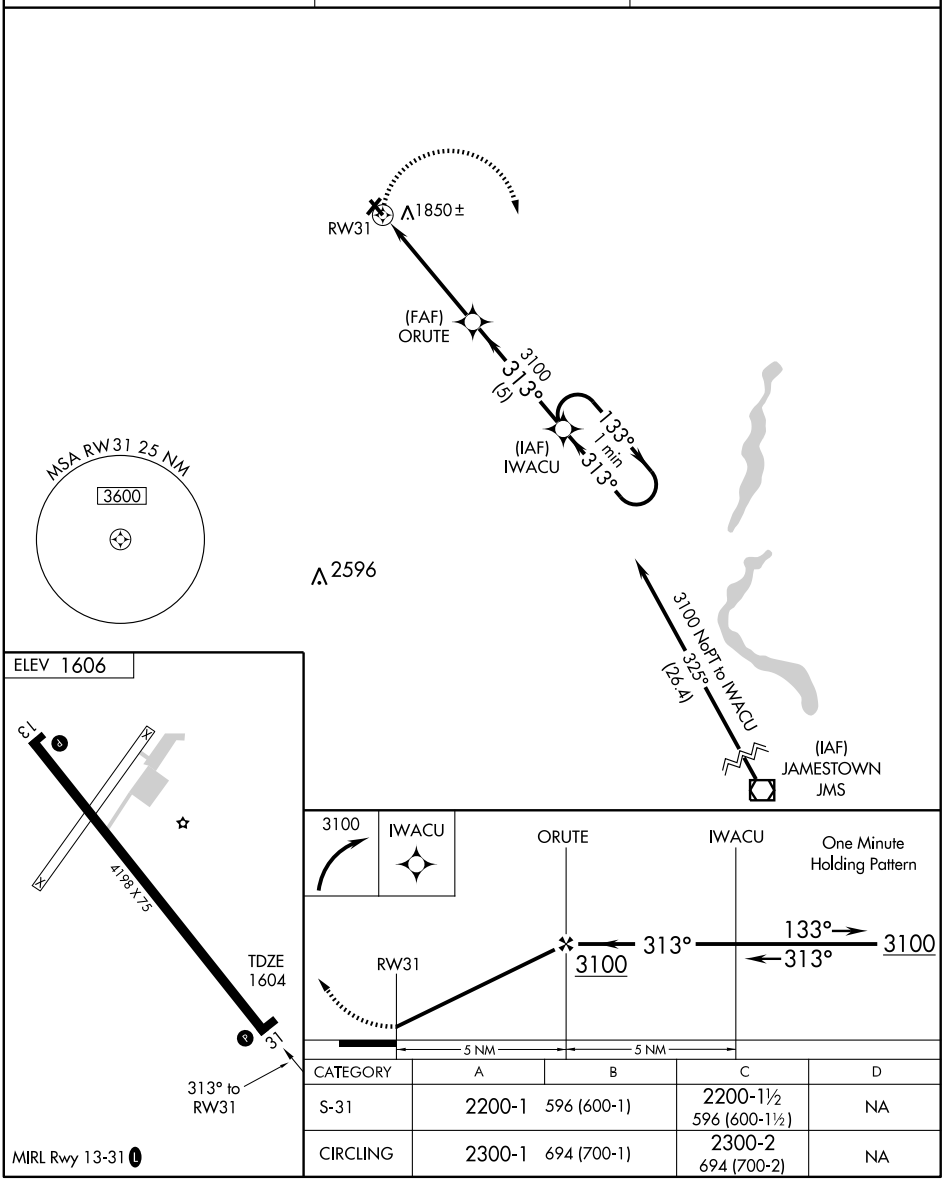
GPS RWY 31
CARRINGTON MUNI (46D)

NA

Use Jamestown altimeter setting.
Procedure NA at night.

MISSED APPROACH: Climbing right turn to 3100 direct IWACU WP and hold.

AWOS-3	MINNEAPOLIS CENTER	CTAF
118.575	124.2 270.3	122.9 L



CATEGORY	A	B	C	D
S-31	2200-1	596 (600-1)	2200-1½ 596 (600-1½)	NA
CIRCLING	2300-1	694 (700-1)	2300-2 694 (700-2)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

CANDO MUNI (9D7) 1 W UTC−6(−5DT) N48°28.80′ W99°14.18′ **TWIN CITIES L–14G**

1481 B **FUEL** 100LL NOTAM FILE GFK

RWY 16–34: H3500X60 (ASPH) MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 25′. **RWY 34:** PAPI(P2L)—GA 3.0° TCH 25′.

AIRPORT REMARKS: Unattended. Migratory waterfowl in vicinity of arpt Mar–Apr and Sep–Oct. Irregular snow removal winter months, confirm winter condition prior to use with arpt manager. MIRL Rwy 16–34, PAPI Rwy 16 and Rwy 34 opr dusk–0400Z‡, after 0400Z‡ ACTIVATE—CTAF.

WEATHER DATA SOURCES: AWOS–3 118.125 (701) 968–3625.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 322° 25.5 NM to fld. 1448/7E.

CARRINGTON MUNI (46D) 1 W UTC−6(−5DT) N47°27.07′ W99°09.08′ **TWIN CITIES L–14G IAP**

1607 B **FUEL** 100LL NOTAM FILE GFK

RWY 13–31: H4198X75 (ASPH) MIRL

RWY 13: PAPI(P2L)—GA 3.0° TCH 25′. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25′. Trees.

AIRPORT REMARKS: Unattended. Self svc 24hr credit card fuel avbl. For snow removal information; ctc city hall 701–652–2911. Numerous agriculture ops Jun–Aug. N apron CLOSED to acft over 1000 lbs. Rwy 13 has 6′ ditch 120′ L of extended centerline outbound fm thld. MIRL Rwy 13–31 opr dusk–0600Z‡, after 0600Z‡ ACTIVATE MIRL Rwy 13–31, PAPI Rwy 13 and Rwy 31—CTAF.

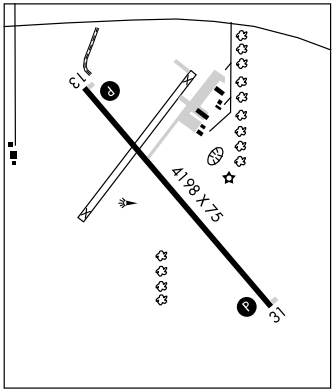
WEATHER DATA SOURCES: AWOS–3 118.575 (701) 652–1875.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 124.2

RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 318° 36.6 NM to fld. 1493/10E. **HIWAS.**



CASSELTON ROBERT MILLER RGNL (5N8) 4 S UTC−6(−5DT) N46°51.24′ W97°12.47′ **TWIN CITIES L–14G IAP**

933 S4 **FUEL** 100LL NOTAM FILE GFK

RWY 13–31: H3900X75 (CONC) S–12.5 MIRL

RWY 13: PAPI(P2R)—GA 2.5° TCH 20′. Road.

RWY 31: REIL. PAPI(P2L)—GA 2.5° TCH 20′. Road.

AIRPORT REMARKS: Attended Oct–May Mon–Sat 1400–2300Z‡, Jun–Sep Mon–Sat 1400–0400Z‡, Sun on call. For attendance after hours call 701–347–4680/5519. Self svc credit card 100LL fuel avbl 24 hrs. Confirm winter conditions and snow removal with arpt manager, call 701–347–4680 between 1400–2300Z‡ daily. Numerous agriculture operations May–Oct. Rwy 13–31 parallel twy marked with reflectors. Acft paint shop avbl 701–347–5262. Rwy 31 PAPI OTS indef. ACTIVATE MIRL Rwy 13–31 and PAPI Rwy 13 and Rwy 31 and REIL Rwy 31—CTAF.

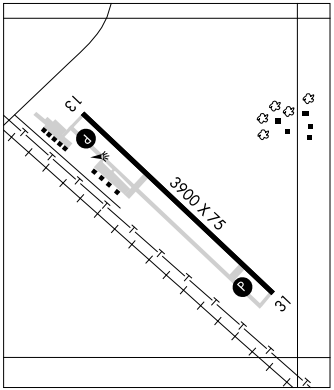
COMMUNICATIONS: CTAF/UNICOM 122.8.

Ⓡ **FARGO APP/DEP CON** 120.4 (1200–0500Z‡)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.35 (Mon–Fri 0500–1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 283° 15.9 NM to fld. 910/9E. **HIWAS.**



APP CRS	Rwy ldg	3900
128°	TDZE	933
	Apt Elev	933

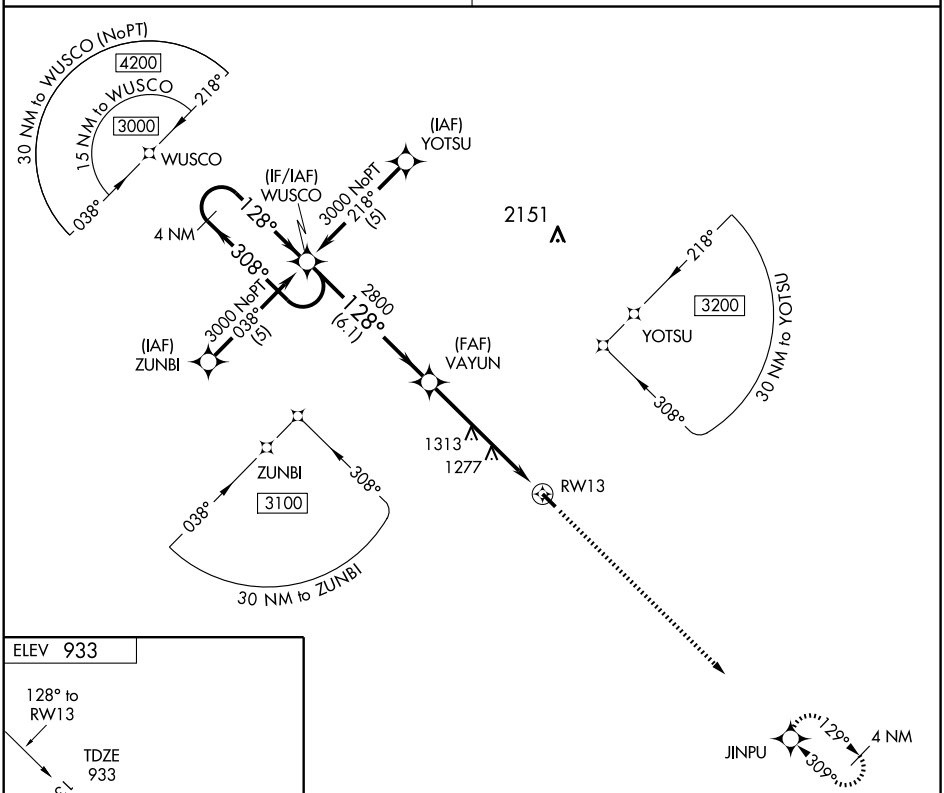
RNAV (GPS) RWY 13
CASSELTON ROBERT MILLER RGNL (5N8)

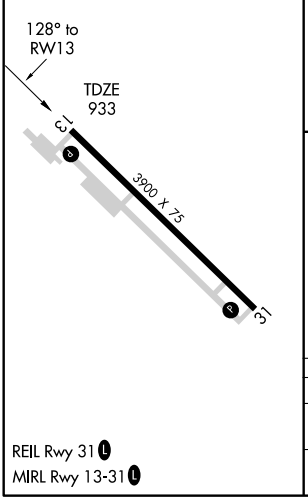
NA

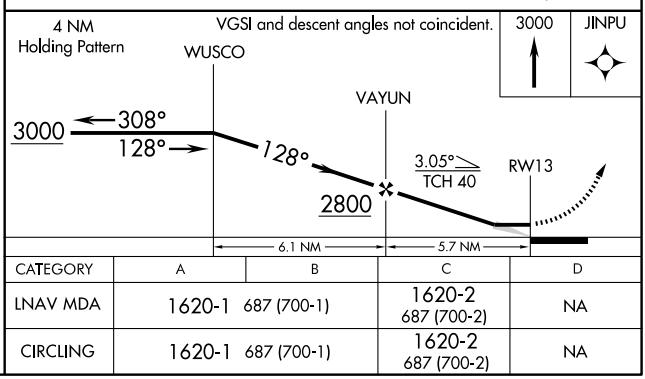
Use Fargo altimeter setting; when not received use Morehead altimeter setting and increase all MDA 20 feet. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct JINPU and hold.

FARGO APP CON ★	UNICOM
120.4 377.15	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1620-1 687 (700-1)		1620-2 687 (700-2)	NA
CIRCLING	1620-1 687 (700-1)		1620-2 687 (700-2)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH **53607** **W31A**	APP CRS **308°**	Rwy ldg **3900** TDZE **933** Apt Elev **933**

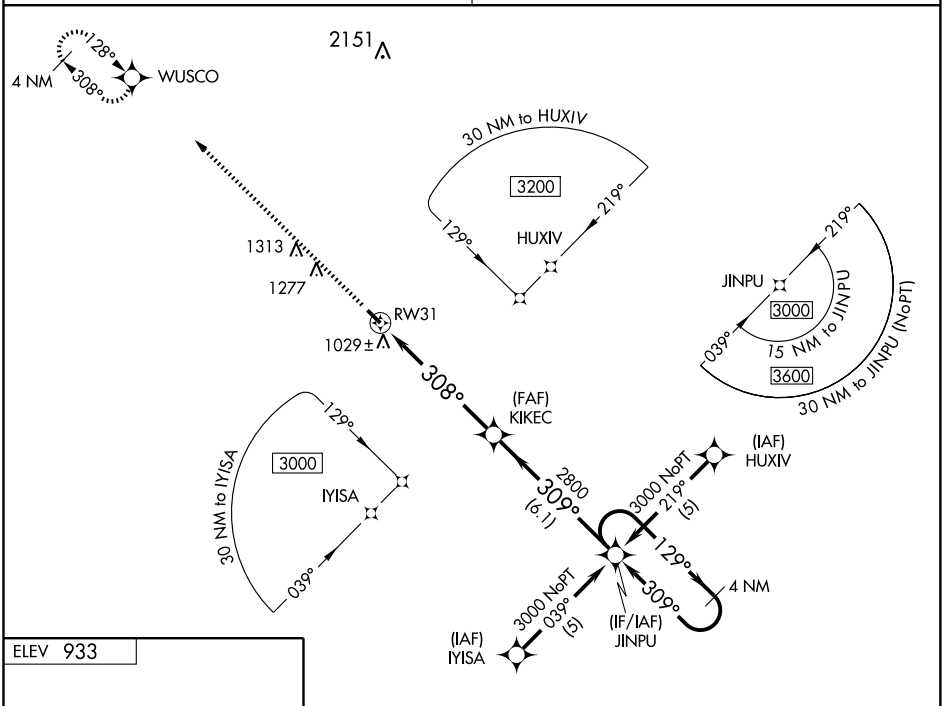
RNAV (GPS) RWY 31
CASSELTON ROBERT MILLER RGNL (5N8)

T NA

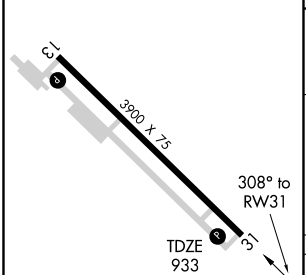
Use Fargo altimeter setting; when not received, use Morehead altimeter setting and increase all DA 11 feet and all MDA 20 feet, increase LNAV Cat C visibility ¼ mile. Baro-VNAV NA. Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

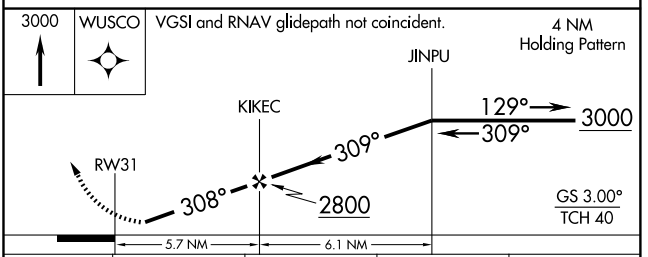
MISSED APPROACH: Climb to 3000 direct WUSCO and hold.

FARGO APP CON ★	UNICOM
120.4 377.15	**122.8** (CTAF) L



ELEV 933





CATEGORY		A	B	C	D
LPV	DA	1226-1 293 (300-1)			NA
LNAV/VNAV	DA	1370-1½ 437 (500-1½)			NA
LNAV MDA		1420-1 487 (500-1)		1420-1¼ 487 (500-1¼)	NA
CIRCLING		1420-1 487 (500-1)		1420-1½ 487 (500-1½)	NA

REIL Rwy 31 L
MIRL Rwy 13-31 L

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VORTAC FAR	APP CRS	Rwy ldg	3900
116.2	283°	TDZE	929
Chan 109		Apt Elev	933

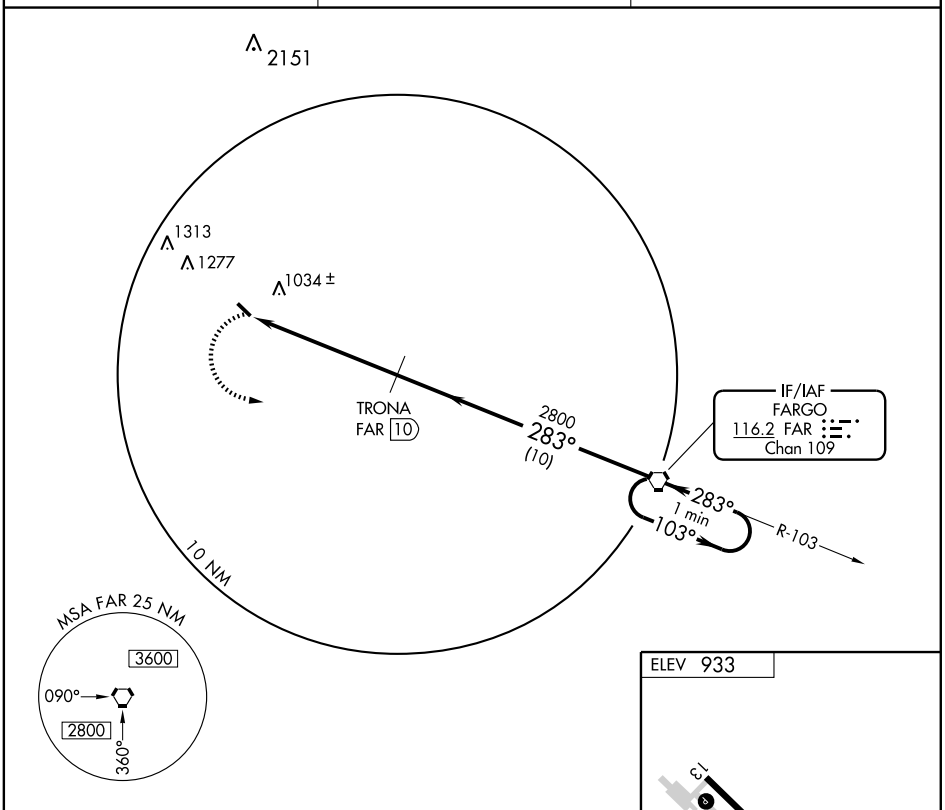
VOR/DME RWY 31
CASSELTON ROBERT MILLER RGNL (5N8)

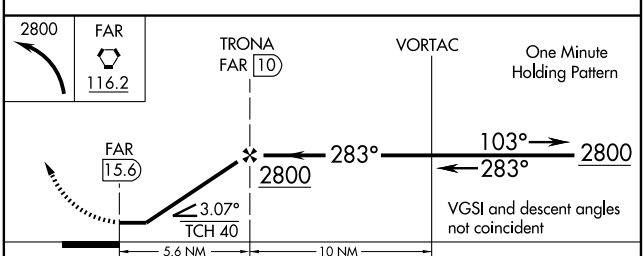
NA

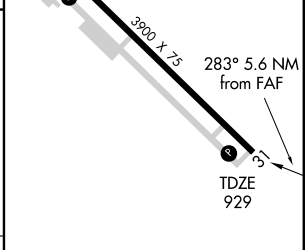
Use Fargo altimeter setting; if not received, use Morehead altimeter setting.

MISSED APPROACH: Climbing left turn to 2800 direct FAR VORTAC and hold.

FARGO ASOS	FARGO APP CON ★	UNICOM
124.5	120.4 377.15	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-31	1360-1 431 (500-1)		1360-1¼ 431 (500-1¼)	NA
CIRCLING	1400-1 467 (500-1)		1400-1½ 467 (500-1½)	NA

REIL Rwy 31 L
MIRL Rwy 13-31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

CAVALIER MUNI (2C8) 1 SW UTC−6(−5DT) N48°47.02′ W97°37.92′

TWIN CITIES
L–14G
IAP

892 B S2 **FUEL** 100LL NOTAM FILE GFK

RWY 16–34: H3299X60 (ASPH) S–12.5 MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 26′. Lgtd P-line.

RWY 34: PAPI(P2L)—GA 4.0° TCH 36′. P-line.

AIRPORT REMARKS: Attended on call. For fuel call 701–265–8656/3186. Confirm snow removal with arpt manager after winter storm. Helipad located S edge of apron. MIRL Rwy 16–34, and PAPI Rwy 16 and Rwy 34 preset until 0400Z‡, after 0400Z‡—CTAF.

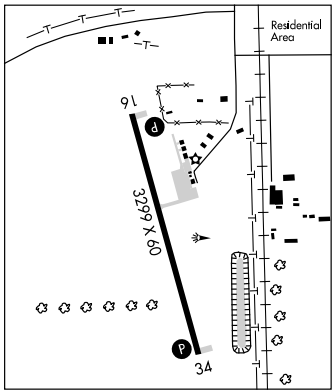
WEATHER DATA SOURCES: AWOS–3 118.275 (701) 265–8050.

COMMUNICATIONS: CTAF/UNICOM 122.8

DEVILS LAKE RCO 122.3 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15′ W97°07.03′ 247° 21.0 NM to fld. 800/9E.



COLUMBUS MUNI (D49) 1 SW UTC−6(−5DT) N48°53.92′ W102°47.53′

BILLINGS

1930 NOTAM FILE 049

RWY 07–25: 2560X100 (TURF)

RWY 07: VASI(NSTD)—GA 5.0° TCH 13′. **RWY 25:** VASI(NSTD)—GA 5.0° TCH 13′. Thld dsplcd 200′. Road.

AIRPORT REMARKS: Unattended. No snow removal avbl winter months, confirm winter conditions with arpt manager 701–939–5288/4511/6671/7831. Rwy 07 and Rwy 25 APAP left and right sides. Rwy 25 has 5′ ditch 30′ from threshold. Rwy 07–25 plywood panels lgtd ngt. Rwy 07-25 has threshold end lgts with reflector side panels for ngt use as test arpt ngt landing site. Rwy 07–25 marked with black/white edge and end panels.

COMMUNICATIONS: CTAF 122.9

COOPERSTOWN MUNI (S32) 2 SE UTC−6(−5DT) N47°25.40′ W98°06.39′

TWIN CITIES
L–14G
IAP

1424 **FUEL** 100LL NOTAM FILE GFK

RWY 13–31: H3500X60 (ASPH) S–12.5 MIRL

RWY 13: PAPI(P2L)—GA 3.0° TCH 25′. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25′. P–line.

AIRPORT REMARKS: Attended Oct–Apr on call, May–Sep 1400–2300Z‡. Self svc 100LL fuel credit card svc 24 hrs avbl. Confirm winter conditions and snow removal with arpt manager on 701–789–0666/3700/3613. Rwy 13– +17′ road also on centerline extended. Rwy 31 apch has 80′ p–line 4/5 mile fm thld. Helicopter ldg area located east apron edge; snow removal irregular. Rwy 13–31 MIRL OTS indef. MIRL on Rwy 13–31 preset on low ints, to increase ints and ACTIVATE PAPI Rwy 13 and Rwy 31—CTAF.

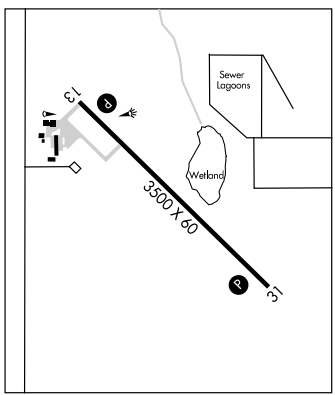
WEATHER DATA SOURCES: AWOS–3 118.750 (701) 797–2566.

COMMUNICATIONS: CTAF 122.9

JAMESTOWN RCO 123.6 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 028° 37.6 NM to fld. 1493/10E. **HIWAS.**



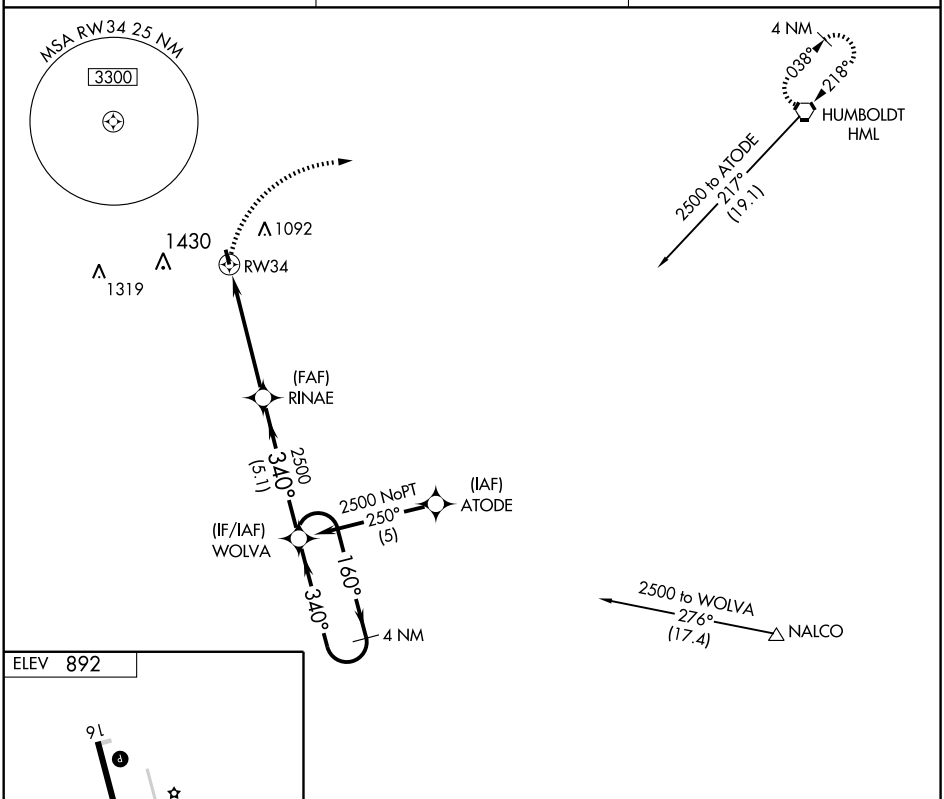
APP CRS	Rwy ldg	3299
340°	TDZE	892
	Apt Elev	892

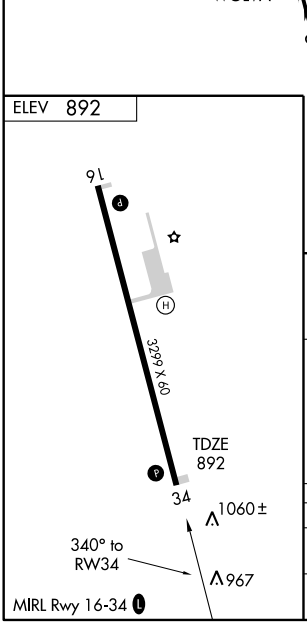
RNAV (GPS) RWY 34
CAVALIER MUNI (2C8)

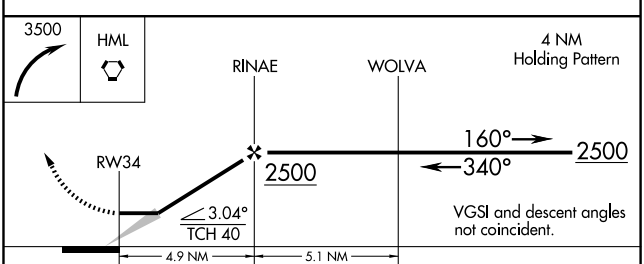
Use Hallock altimeter setting.
NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 3500 direct HML VORTAC and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
118.275	122.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1440-1 548 (600-1)		1440-1½ 548 (600-1½)	NA
CIRCLING	1500-1 608 (700-1)		1500-1¾ 608 (700-1¾)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

CAVALIER MUNI (2C8) 1 SW UTC−6(−5DT) N48°47.02′ W97°37.92′

TWIN CITIES
L–14G
IAP

892 B S2 **FUEL** 100LL NOTAM FILE GFK

RWY 16–34: H3299X60 (ASPH) S–12.5 MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 26′. Lgtd P-line.

RWY 34: PAPI(P2L)—GA 4.0° TCH 36′. P-line.

AIRPORT REMARKS: Attended on call. For fuel call 701–265–8656/3186. Confirm snow removal with arpt manager after winter storm. Helipad located S edge of apron. MIRL Rwy 16–34, and PAPI Rwy 16 and Rwy 34 preset until 0400Z‡, after 0400Z‡—CTAF.

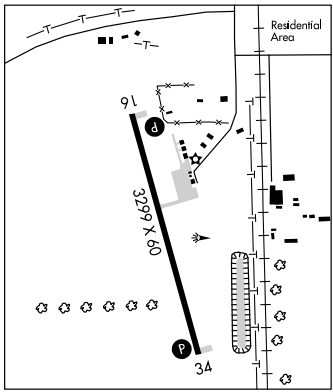
WEATHER DATA SOURCES: AWOS–3 118.275 (701) 265–8050.

COMMUNICATIONS: CTAF/UNICOM 122.8

DEVILS LAKE RCO 122.3 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15′ W97°07.03′ 247° 21.0 NM to fld. 800/9E.



COLUMBUS MUNI (D49) 1 SW UTC−6(−5DT) N48°53.92′ W102°47.53′

BILLINGS

1930 NOTAM FILE 049

RWY 07–25: 2560X100 (TURF)

RWY 07: VASI(NSTD)—GA 5.0° TCH 13′. **RWY 25:** VASI(NSTD)—GA 5.0° TCH 13′. Thld dsplcd 200′. Road.

AIRPORT REMARKS: Unattended. No snow removal avbl winter months, confirm winter conditions with arpt manager 701–939–5288/4511/6671/7831. Rwy 07 and Rwy 25 APAP left and right sides. Rwy 25 has 5′ ditch 30′ from threshold. Rwy 07–25 plywood panels lgtd ngt. Rwy 07-25 has threshold end lgts with reflector side panels for ngt use as test arpt ngt landing site. Rwy 07–25 marked with black/white edge and end panels.

COMMUNICATIONS: CTAF 122.9

COOPERSTOWN MUNI (S32) 2 SE UTC−6(−5DT) N47°25.40′ W98°06.39′

TWIN CITIES
L–14G
IAP

1424 **FUEL** 100LL NOTAM FILE GFK

RWY 13–31: H3500X60 (ASPH) S–12.5 MIRL

RWY 13: PAPI(P2L)—GA 3.0° TCH 25′. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25′. P–line.

AIRPORT REMARKS: Attended Oct–Apr on call, May–Sep 1400–2300Z‡. Self svc 100LL fuel credit card svc 24 hrs avbl. Confirm winter conditions and snow removal with arpt manager on 701–789–0666/3700/3613. Rwy 13– +17′ road also on centerline extended. Rwy 31 apch has 80′ p–line 4/5 mile fm thld. Helicopter ldg area located east apron edge; snow removal irregular. Rwy 13–31 MIRL OTS indef. MIRL on Rwy 13–31 preset on low ints, to increase ints and ACTIVATE PAPI Rwy 13 and Rwy 31—CTAF.

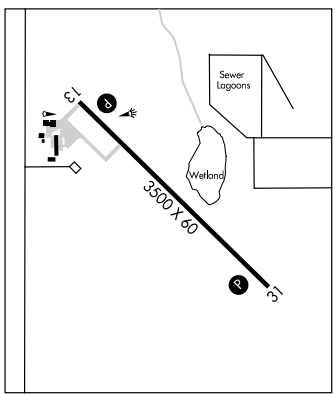
WEATHER DATA SOURCES: AWOS–3 118.750 (701) 797–2566.

COMMUNICATIONS: CTAF 122.9

JAMESTOWN RCO 123.6 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 028° 37.6 NM to fld. 1493/10E. **HIWAS.**



APP CRS	Rwy ldg	3500
129°	TDZE	1424
	Apt Elev	1424

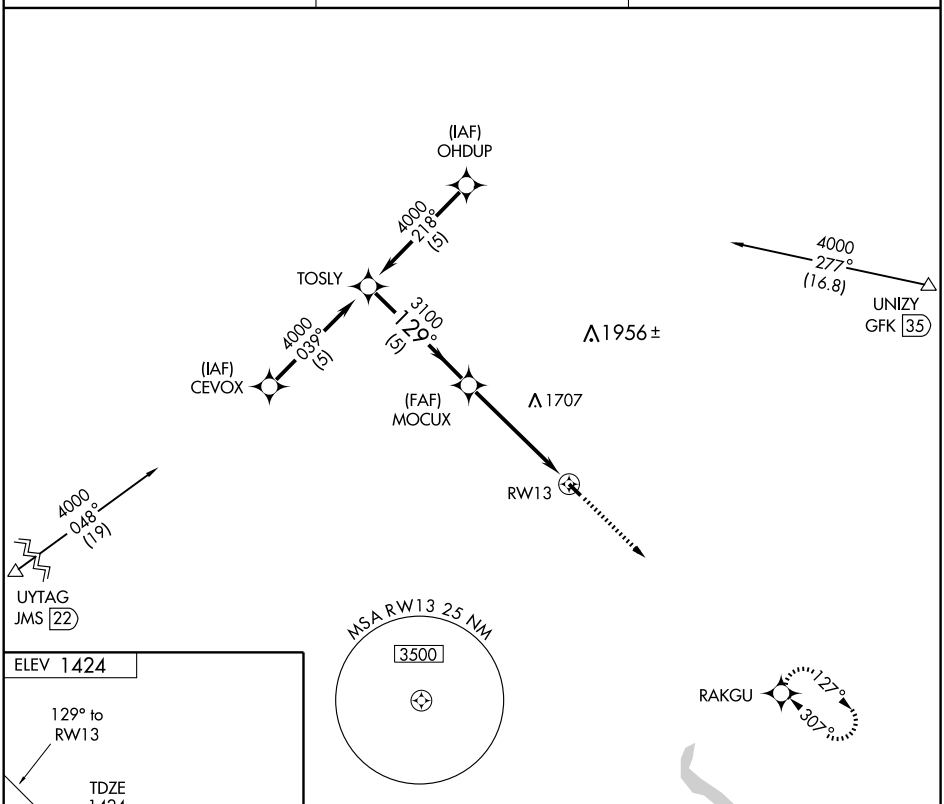
GPS RWY 13
COOPERSTOWN MUNI (S32)

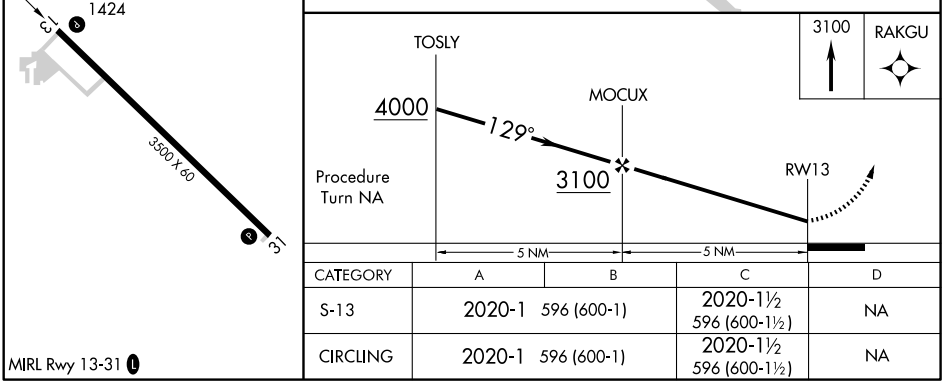
NA

Use Jamestown altimeter setting.

MISSED APPROACH: Climb to 3100 direct RAKGU WP and hold.

AWOS-3	GRAND FORKS RADIO	CTAF
118.750	123.6	122.9 L





CATEGORY	A	B	C	D
S-13	2020-1	596 (600-1)	2020-1½ 596 (600-1½)	NA
CIRCLING	2020-1	596 (600-1)	2020-1½ 596 (600-1½)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	3500
309°	TDZE	1424
	Apt Elev	1424

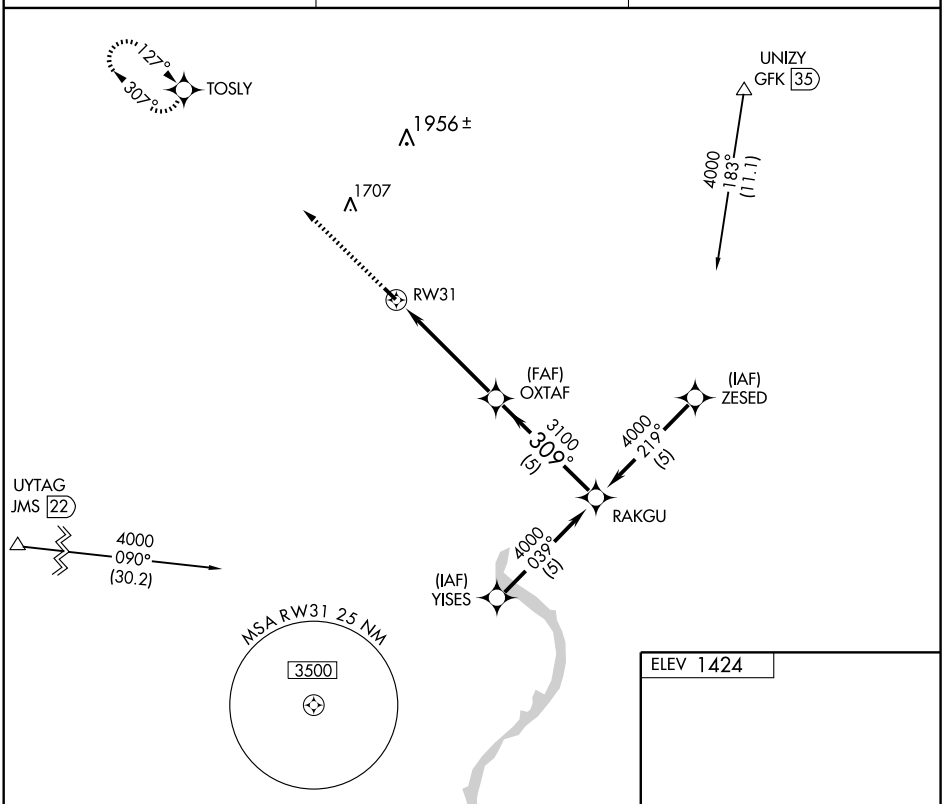
GPS RWY 31
COOPERSTOWN MUNI (S32)

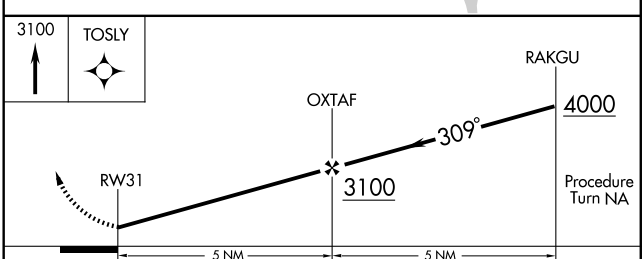
NA

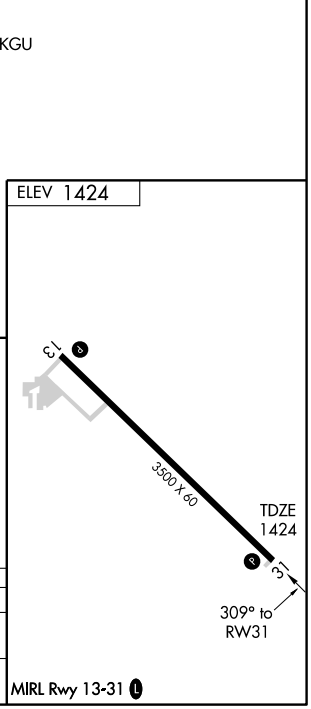
Use Jamestown altimeter setting.

MISSED APPROACH: Climb to 3100 direct TOSLY WP and hold.

AWOS-3	GRAND FORKS RADIO	CTAF
118.750	123.6	122.9 L



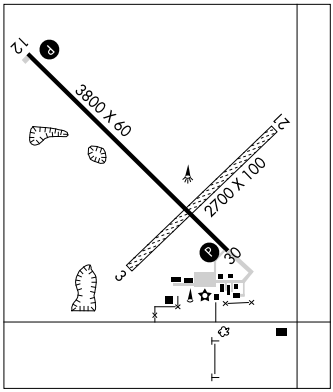




CATEGORY	A	B	C	D
S-31	1900-1	476 (500-1)	1900-1¼ 476 (500-1¼)	NA
CIRCLING	2020-1	596 (600-1)	2020-1½ 596 (600-1½)	NA

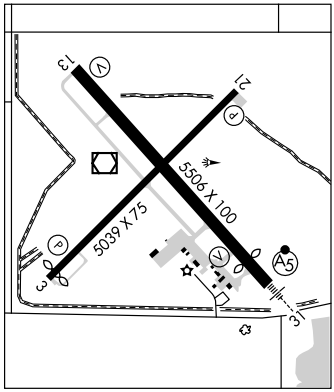
NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

CROSBY MUNI (D5Ø) 1 N UTC−6(−5DT) N48°55.71′ W103°17.84′ **BILLINGS**
1950 B **FUEL** 100 NOTAM FILE GFK **L–13E, 14F**
RWY 12–30: H3800X60 (ASPH) S–12.5 MIRL **IAP**
RWY 12: PAPI (P2L)—GA 3.0° TCH 22′. P-line.
RWY 30: PAPI (P2L)—GA 3.0° TCH 23′. Road.
RWY 03–21: 2700X100 (TURF) 0.3% up SW
RWY 03: Road. **RWY 21:** Road.
AIRPORT REMARKS: Unattended. Fuel 24hr self svc credit card fuel avbl. Deer on and invof arpt. Rwy 03–21 CLOSED winter months due to lack of snow removal. Rwy 03 rwy end corner and side daylight cone markers only. Rwy 21 +25′ trees 180′ from thld; 100′ left of extended centerline; apch ratio 7:1. Rotating bcn OTS indef. PAPI Rwy 12 and Rwy 30 ops dusk–0700Z‡. MIRL Rwy 12–30 preset on low ints dusk–0700Z‡, to increase ints ACTIVATE—CTAF. After 0700Z‡ ACTIVATE MIRL Rwy 12–30 and PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.025 (701) 965–6732.
COMMUNICATIONS: CTAF 122.9
SALT LAKE CITY CENTER APP/DEP CON 126.85
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 012° 44.4 NM to fld. 2372/12E. **HIWAS.**



DEERING N48°24.92′ W101°21.97′ NOTAM FILE GFK. **BILLINGS**
(H) TACAN Chan 96 MIB (114.9) at Minot AFB. 1668/10E. No NOTAM MP Wed 1530–1730Z‡ (1500/3+1). **H–2H, L–14F**

DEVILS LAKE RGNL (DVL) 2 W UTC−6(−5DT) N48°06.88′ W98°54.50′ **TWIN CITIES**
1456 B S4 **FUEL** 100LL, JET A Class I, ARFF Index A NOTAM FILE DVL **H–2I, L–14G**
RWY 13–31: H5506X100 (ASPH–GRVD) S–75, D–130, 2S–175, 2D–190, C5–647 HIRL **IAP**
RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 52′. Road.
RWY 31: MALSR. VASI(V4L)—GA 3.0° TCH 42′. Thld dsplcd 640′. Road.
RWY 03–21: H5039X75 (ASPH–PFC) S–30 MIRL
RWY 03: REIL. PAPI(P2L)—GA 3.0° TCH 25′. Thld dsplcd 183′. Tree.
RWY 21: REIL. PAPI(P2L)—GA 3.0° TCH 25′. Tree.
RUNWAY DECLARED DISTANCE INFORMATION
RWY 03: TORA–5039 TODA–5039 ASDA–5039 LDA–4856
RWY 13: TORA–5506 TODA–5506 ASDA–5506 LDA–5506
RWY 21: TORA–5039 TODA–5039 ASDA–5039 LDA–5039
RWY 31: TORA–5506 TODA–5506 ASDA–5506 LDA–4866
AIRPORT REMARKS: Attended 1300–0000Z‡. For attendant other hrs call 701–662–3221/2827. After dark call 662–3550. Jet A fuel avbl; call 701–662–3221, irregular hrs. Numerous waterfowl and other birds, deer and jack rabbits on and invof arpt. Scheduled air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arr/dep times without prior coordination with arpt manager to ensure that ARFF is avbl. 48 hrs PPR for unscheduled air carrier ops with more than 30 passengers call arpt manager 701–662–5833. Rwy 03–21 CLOSED to air carrier acft with more than 9 passenger seats. HIRL Rwy 13–31 preset low ints dusk–dawn, to increase ints and ACTIVATE MIRL Rwy 03–21, REIL Rwy 03 and Rwy 21—CTAF.



WEATHER DATA SOURCES: AWOS–3 125.875 (701) 662–7214. **HIWAS** 111.0 DVL.
COMMUNICATIONS: CTAF/UNICOM 122.8
RCO 122.3 (GRAND FORKS RADIO)
AIRSPACE: CLASS E svc Mon–Fri 1000–0330Z‡, Sat 1000–2100Z‡, Sun 1930–0330Z‡ other times CLASS G.
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
(L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ at fld. 1448/7E.
VIKOR NDB (LOM) 332 VK N48°02.13′ W98°48.23′ 311° 6.3 NM to fld.
ILS 108.7 I–VKE Rwy 31. LOM VIKOR NDB. ILS unmonitored.

APP CRS	Rwy ldg	3800
304°	TDZE	1948
	Apt Elev	1950

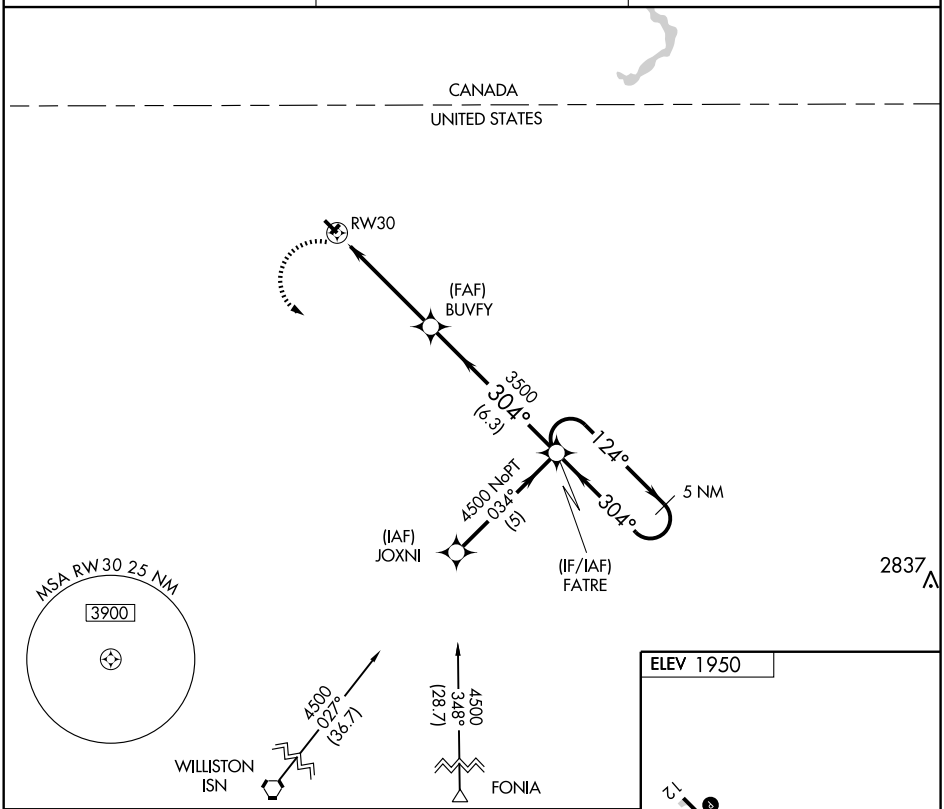
RNAV (GPS) RWY 30
CROSBY MUNI (D50)

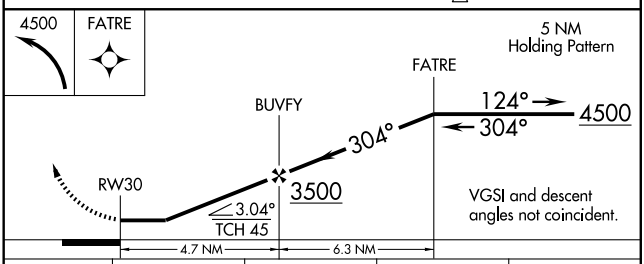
NA

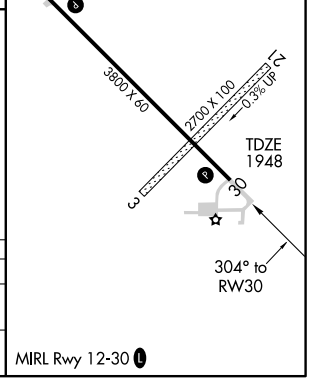
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all MDA 120 feet and increase LNAV Cat C and D visibility ¼ mile; circling Cat C and D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4500 direct FATRE and hold.

AWOS-3	SALT LAKE CITY CENTER	CTAF
118.025	126.85 305.2	122.9 L



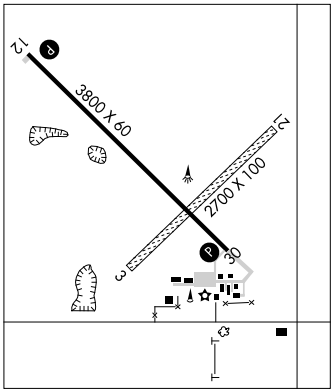




CATEGORY	A	B	C	D
LNAV MDA	2560-1 612 (700-1)		2560-1¾ 612 (700-1¾)	2560-2 612 (700-2)
CIRCLING	2560-1 610 (700-1)		2560-1¾ 610 (700-1¾)	2560-2 610 (700-2)

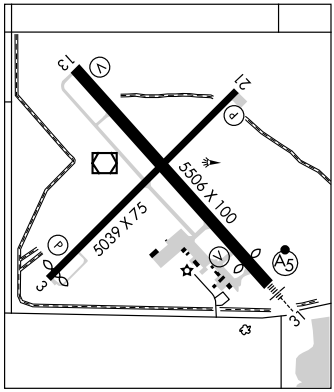
NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

CROSBY MUNI (D5Ø) 1 N UTC−6(−5DT) N48°55.71′ W103°17.84′ **BILLINGS**
1950 B **FUEL** 100 NOTAM FILE GFK **L–13E, 14F**
RWY 12–30: H3800X60 (ASPH) S–12.5 MIRL **IAP**
RWY 12: PAPI (P2L)—GA 3.0° TCH 22′. P-line.
RWY 30: PAPI (P2L)—GA 3.0° TCH 23′. Road.
RWY 03–21: 2700X100 (TURF) 0.3% up SW
RWY 03: Road. **RWY 21:** Road.
AIRPORT REMARKS: Unattended. Fuel 24hr self svc credit card fuel avbl. Deer on and invof arpt. Rwy 03–21 CLOSED winter months due to lack of snow removal. Rwy 03 rwy end corner and side daylight cone markers only. Rwy 21 +25′ trees 180′ from thld; 100′ left of extended centerline; apch ratio 7:1. Rotating bcn OTS indef. PAPI Rwy 12 and Rwy 30 ops dusk–0700Z‡. MIRL Rwy 12–30 preset on low ints dusk–0700Z‡, to increase ints ACTIVATE—CTAF. After 0700Z‡ ACTIVATE MIRL Rwy 12–30 and PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.025 (701) 965–6732.
COMMUNICATIONS: CTAF 122.9
SALT LAKE CITY CENTER APP/DEP CON 126.85
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 012° 44.4 NM to fld. 2372/12E. **HIWAS.**



DEERING N48°24.92′ W101°21.97′ NOTAM FILE GFK. **BILLINGS**
(H) TACAN Chan 96 MIB (114.9) at Minot AFB. 1668/10E. No NOTAM MP Wed 1530–1730Z‡ (1500/3+1). **H–2H, L–14F**

DEVILS LAKE RGNL (DVL) 2 W UTC−6(−5DT) N48°06.88′ W98°54.50′ **TWIN CITIES**
1456 B S4 **FUEL** 100LL, JET A Class I, ARFF Index A NOTAM FILE DVL **H–2I, L–14G**
RWY 13–31: H5506X100 (ASPH–GRVD) S–75, D–130, 2S–175, 2D–190, C5–647 HIRL **IAP**
RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 52′. Road.
RWY 31: MALSR. VASI(V4L)—GA 3.0° TCH 42′. Thld dsplcd 640′. Road.
RWY 03–21: H5039X75 (ASPH–PFC) S–30 MIRL
RWY 03: REIL. PAPI(P2L)—GA 3.0° TCH 25′. Thld dsplcd 183′. Tree.
RWY 21: REIL. PAPI(P2L)—GA 3.0° TCH 25′. Tree.
RUNWAY DECLARED DISTANCE INFORMATION
RWY 03: TORA–5039 TODA–5039 ASDA–5039 LDA–4856
RWY 13: TORA–5506 TODA–5506 ASDA–5506 LDA–5506
RWY 21: TORA–5039 TODA–5039 ASDA–5039 LDA–5039
RWY 31: TORA–5506 TODA–5506 ASDA–5506 LDA–4866
AIRPORT REMARKS: Attended 1300–0000Z‡. For attendant other hrs call 701–662–3221/2827. After dark call 662–3550. Jet A fuel avbl; call 701–662–3221, irregular hrs. Numerous waterfowl and other birds, deer and jack rabbits on and invof arpt. Scheduled air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arr/dep times without prior coordination with arpt manager to ensure that ARFF is avbl. 48 hrs PPR for unscheduled air carrier ops with more than 30 passengers call arpt manager 701–662–5833. Rwy 03–21 CLOSED to air carrier acft with more than 9 passenger seats. HIRL Rwy 13–31 preset low ints dusk–dawn, to increase ints and ACTIVATE MIRL Rwy 03–21, REIL Rwy 03 and Rwy 21—CTAF.



WEATHER DATA SOURCES: AWOS–3 125.875 (701) 662–7214. **HIWAS** 111.0 DVL.
COMMUNICATIONS: CTAF/UNICOM 122.8
RCO 122.3 (GRAND FORKS RADIO)
AIRSPACE: CLASS E svc Mon–Fri 1000–0330Z‡, Sat 1000–2100Z‡, Sun 1930–0330Z‡ other times CLASS G.
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
(L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ at fld. 1448/7E.
VIKOR NDB (LOM) 332 VK N48°02.13′ W98°48.23′ 311° 6.3 NM to fld.
ILS 108.7 I–VKE Rwy 31. LOM VIKOR NDB. ILS unmonitored.

LOC I-VKE	APP CRS	Rwy ldg	4866
108.7	311°	TDZE	1448
		Apt Elev	1455

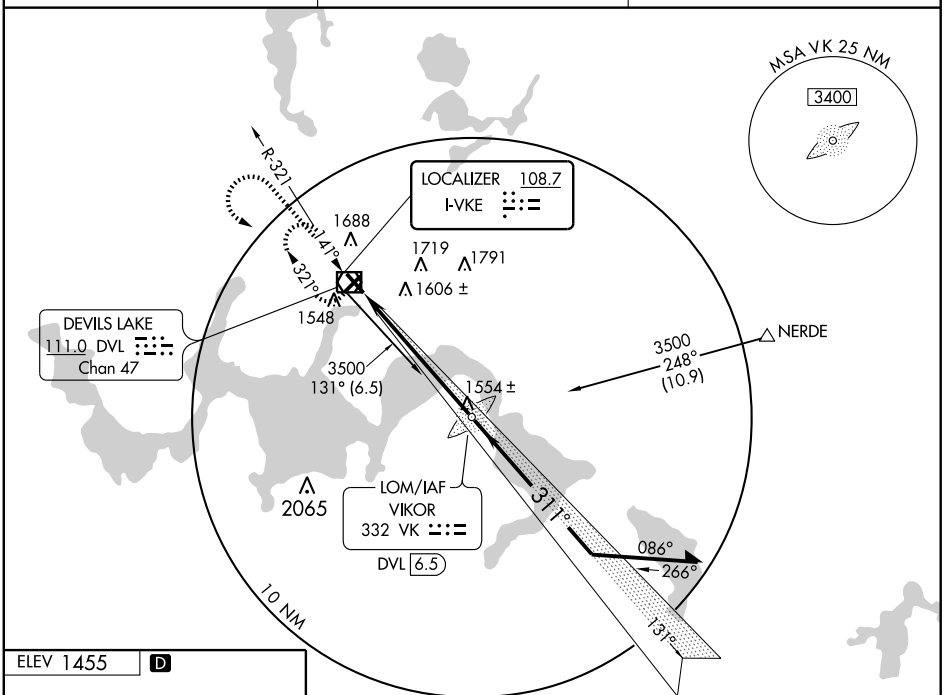
ILS or LOC RWY 31
DEVILS LAKE RGNL (DVL)

T NA — Inoperative table does not apply to S-ILS 31. For inoperative MALSR increase S-LOC 31 Cat A, B, C visibility to 1 mile.

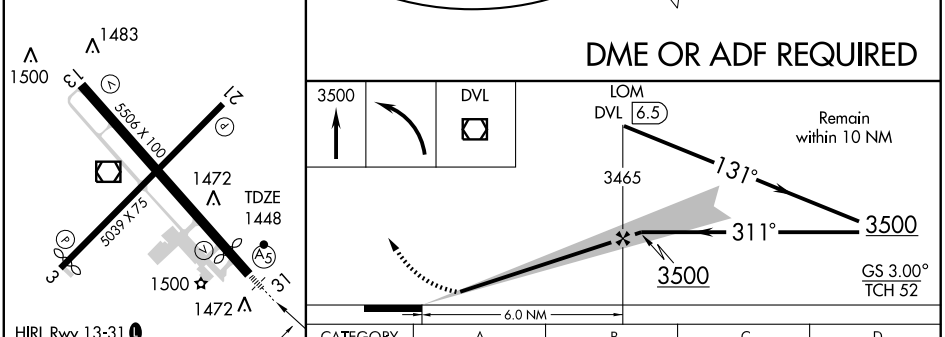
MALSR A5

MISSED APPROACH: Climb to 3500 then left turn direct DVL VOR/DME and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L



DME OR ADF REQUIRED



FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

CATEGORY	A	B	C	D
S-ILS 31	1698-¾ 250 (300-¾)			
S-LOC 31	1800-¾ 352 (400-¾)			
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

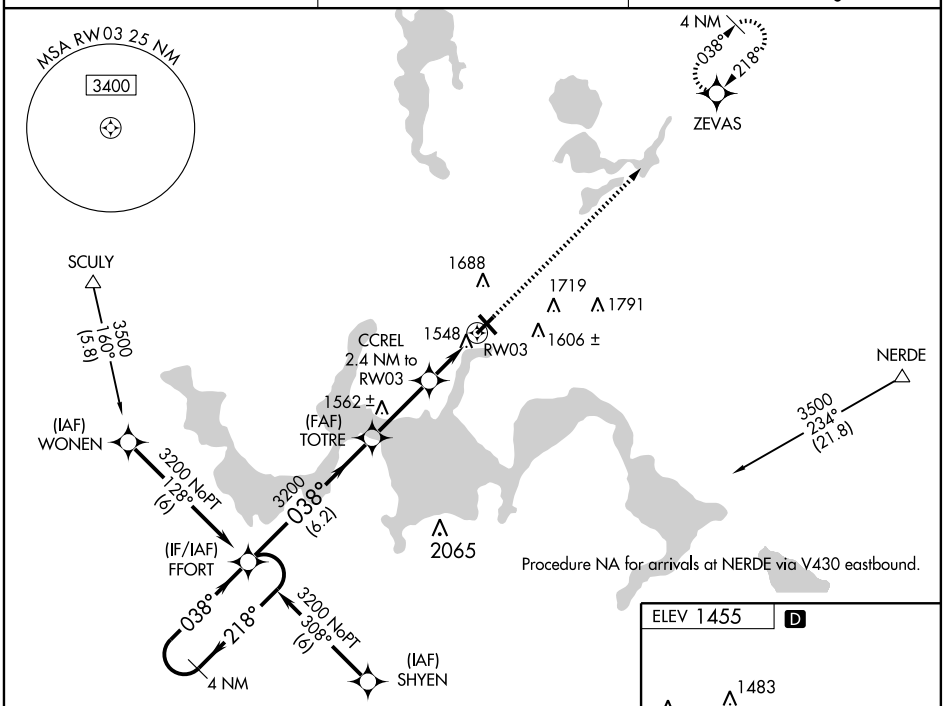
WAAS CH 93608 W03A	APP CRS 038°	Rwy ldg 4856 TDZE 1450 Apt Elev 1455

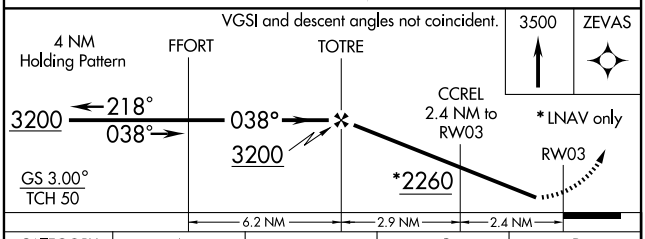
RNAV (GPS) RWY 3
DEVILS LAKE RGNL (DVL)

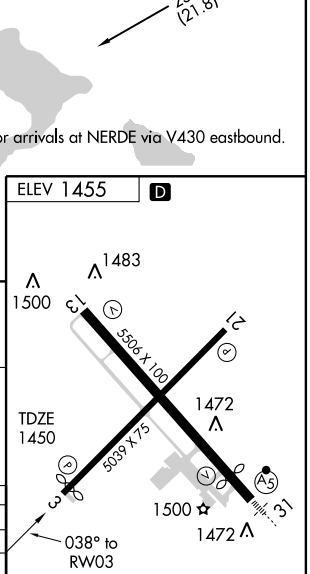
Baro-VNAV NA when using Jamestown altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 173 feet, and all MDA 180 feet, increase LPV and LNAV/VNAV all Cats visibility ¾ mile, LNAV and Circling Cats C and D visibility ½ mile.

MISSED APPROACH: Climb to 3500 direct ZEVAS and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	1775-1 325 (400-1)			
LNAV/VNAV DA	1821-1¼ 371 (400-1¼)			
LNAV MDA	1800-1 350 (400-1)			1800-1¼ 350 (400-1¼)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)

HIRL Rwy 13-31 L
REIL Rwy 13
REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

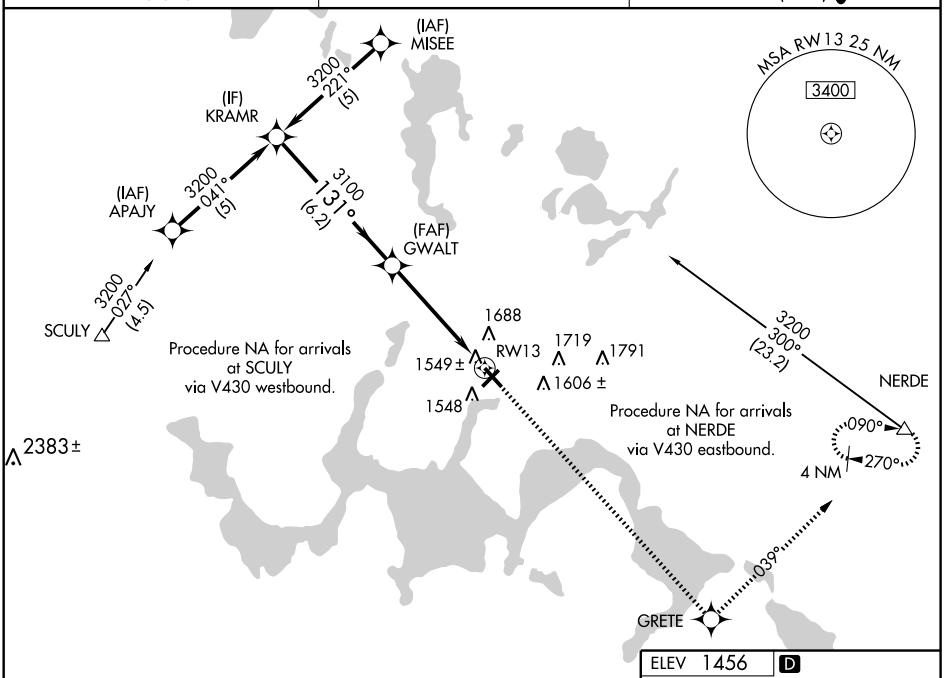
WAAS CH 78314 W13A	APP CRS 131°	Rwy ldg 5506 TDZE 1456 Apt Elev 1456

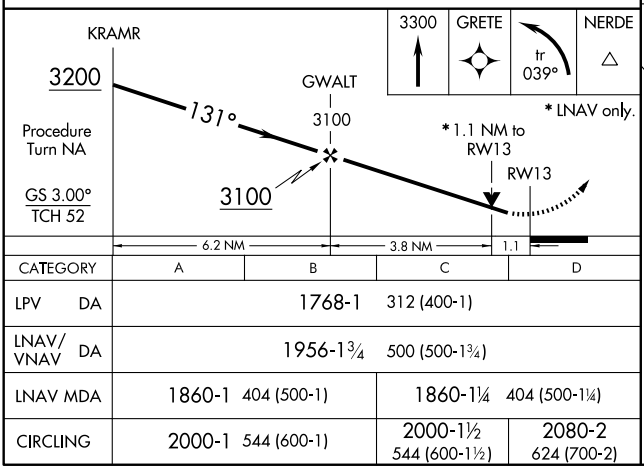
RNAV (GPS) RWY 13
DEVILS LAKE RGNL (DVL)

Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, and all MDA 180 feet, increase LPV all Cats visibility ¾ mile, LNAV/VNAV all Cats ½ mile, LNAV Cat C ¼ mile, Cat D ½ mile, Circling Cats C and D ½ mile. VDP NA with Jamestown altimeter setting.

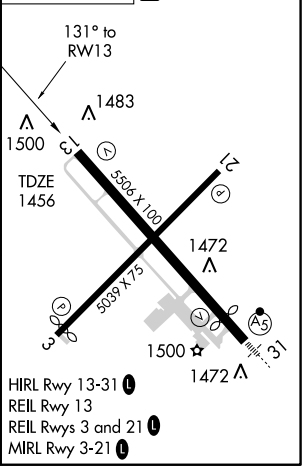
MISSED APPROACH: Climb to 3300 direct GRETE and left turn on track 039° to NERDE and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1768-1 312 (400-1)			
LNAV/VNAV DA	1956-1¾ 500 (500-1¾)			
LNAV MDA	1860-1 404 (500-1)		1860-1¼ 404 (500-1¼)	
CIRCLING	2000-1 544 (600-1)		2000-1½ 544 (600-1½)	2080-2 624 (700-2)



NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

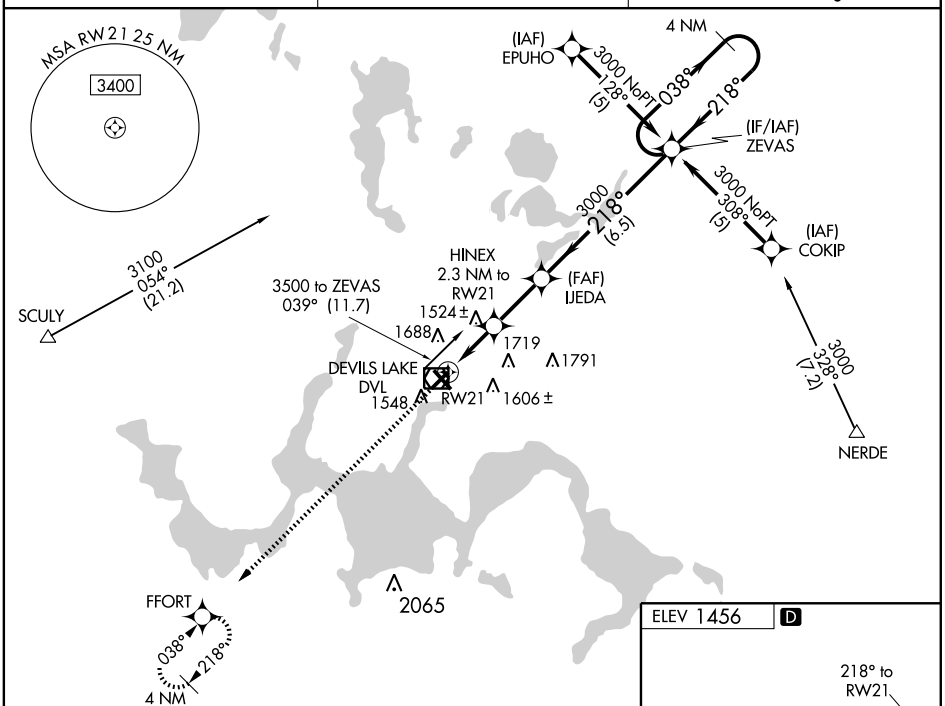
WAAS CH 78417 W21A	APP CRS 218°	Rwy ldg 5039 TDZE 1449 Apt Elev 1456

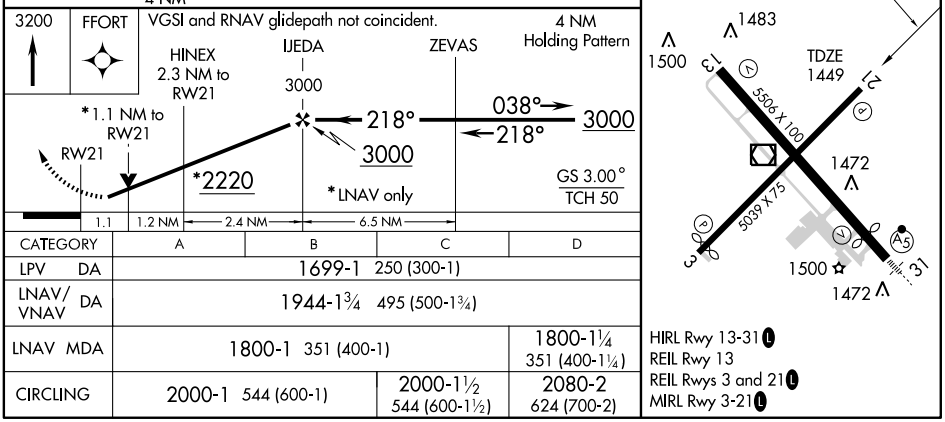
RNAV (GPS) RWY 21
DEVILS LAKE RGNL (DVL)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Jamestown altimeter setting. VDP NA with Jamestown altimeter setting. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, and all MDA 180 feet, increase LPV all Cats visibility ½ mile, LNAV/VNAV all Cats visibility ¾ mile, LNAV and Circling Cats C and D visibility ½ mile.

MISSED APPROACH: Climb to 3200 direct FFORT and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1699-1 250 (300-1)			
LNAV/VNAV DA	1944-1¾ 495 (500-1¾)			
LNAV MDA	1800-1 351 (400-1)			1800-1¼ 351 (400-1¼)
CIRCLING	2000-1 544 (600-1)		2000-1½ 544 (600-1½)	2080-2 624 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 58314 W31A	APP CRS 311°	Rwy ldg 4866 TDZE 1449 Apt Elev 1456

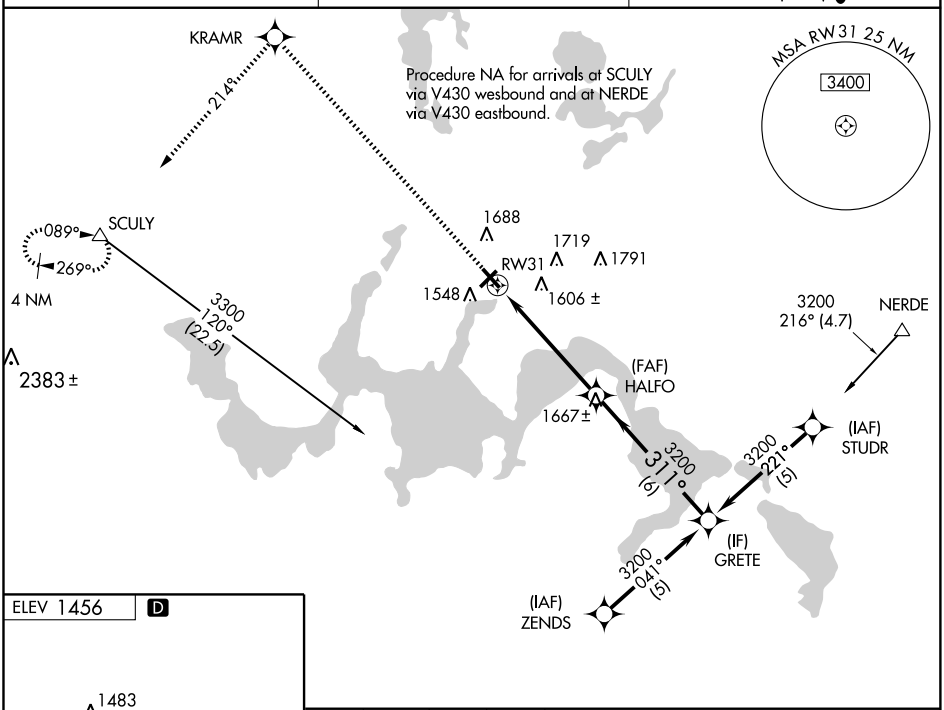
RNAV (GPS) RWY 31
DEVILS LAKE RGNL (DVL)

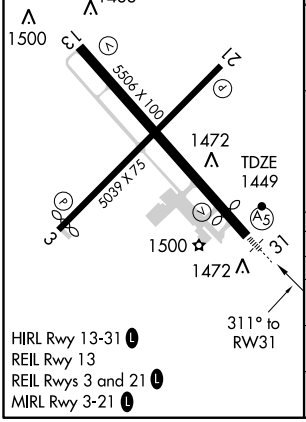
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase visibility LNAV Cat D 1¼ mile. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, all MDA 180 feet, increase LPV all Cats visibility ½ mile, LNAV/VNAV all Cats ¾ mile, LNAV Cat C ½ mile, Cat D ¼ mile, circling Cats C and D ½ mile. Baro-VNAV and VDP NA when using Jamestown altimeter setting. For inoperative MALSR, when using Jamestown altimeter setting, increase LPV all Cats visibility to 1½ mile.

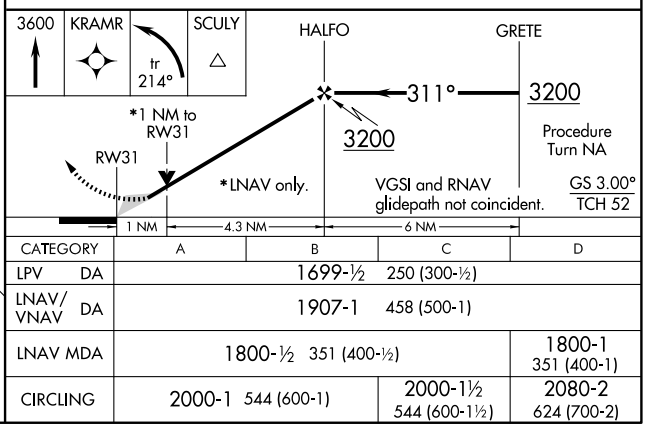
MALSR

MISSED APPROACH: Climb to 3600 direct KRAMR and left turn via Track 214° to SCULY and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	1699-½ 250 (300-½)			
LNAV/VNAV DA	1907-1 458 (500-1)			
LNAV MDA	1800-½ 351 (400-½)			1800-1 351 (400-1)
CIRCLING	2000-1 544 (600-1)		2000-1½ 544 (600-1½)	2080-2 624 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

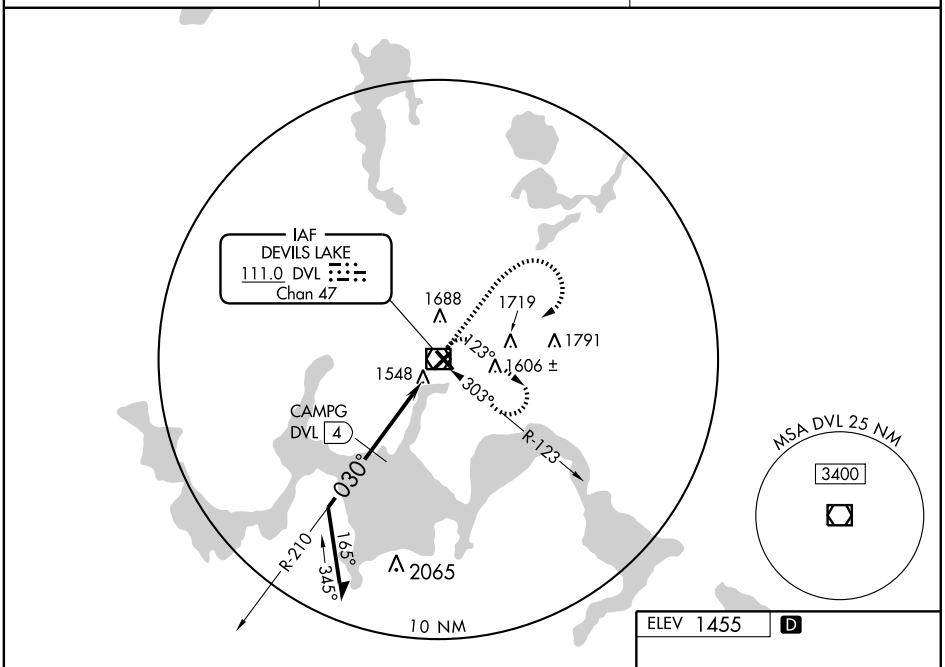
VOR/DME DVL	APP CRS	Rwy ldg	4856
111.0	030°	TDZE	1450
Chan 47		Apt Elev	1455

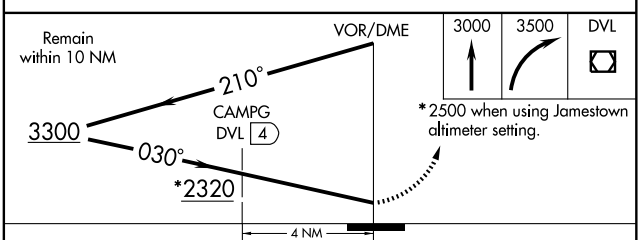
VOR RWY 3
DEVILS LAKE RGNL (DVL)

Visibility reduction by helicopters NA.
When local altimeter setting not received, use Jamestown altimeter setting and increase all MDA 180 feet, increase S-3 and Circling visibility Cat. A/B and D ¼ mile, Cat. C ½ mile, increase CAMPG FIX MINIMUMS S-3 and Circling Cat. C and D visibility ½ mile.

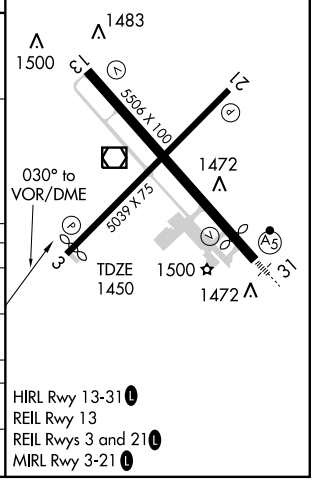
MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct DVL VOR/DME and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-3	2320-1 870 (900-1)	2320-1¼ 870 (900-1¼)	2320-2½ 870 (900-2½)	2320-2¾ 870 (900-2¾)
CIRCLING	2320-1 865 (900-1)	2320-1¼ 865 (900-1¼)	2320-2½ 865 (900-2½)	2320-2¾ 865 (900-2¾)
CAMPG FIX MINIMUMS				
S-3	1800-1 350 (400-1)			1800-1¼ 350 (400-1¼)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)



HIRL Rwy 13-31 L
REIL Rwy 13
REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

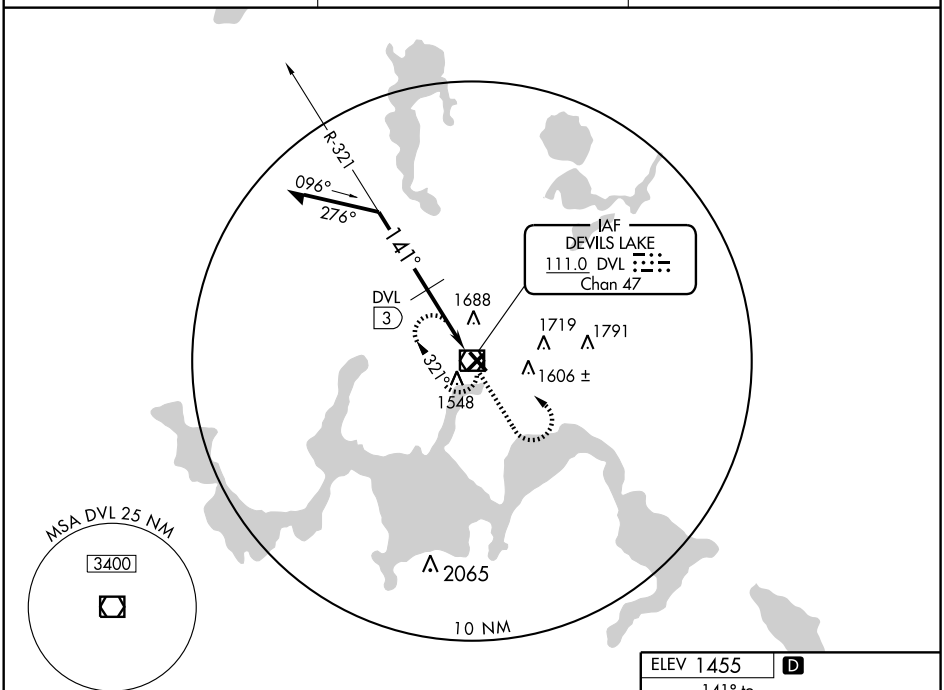
VOR/DME DVL	APP CRS	Rwy ldg	5506
111.0	141°	TDZE	1455
Chan 47		Apt Elev	1455

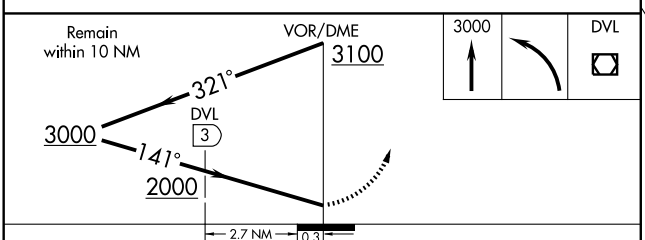
VOR RWY 13
DEVILS LAKE RGNL(DVL)

Visibility reduction by helicopters NA.

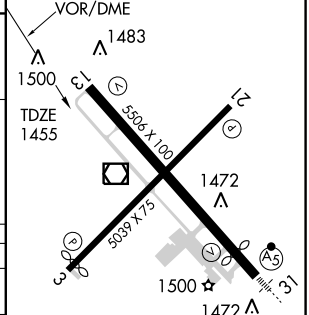
MISSED APPROACH: Climb to 3000 then left turn direct DVL VOR/DME and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-13	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2000-1¾ 545 (600-1¾)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)
DME MINIMUMS				
S-13	1940-1 485 (500-1)		1940-1¼ 485 (500-1¼)	1940-1½ 485 (500-1½)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)



HIRL Rwy 13-31 L
REIL Rwy 13
REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

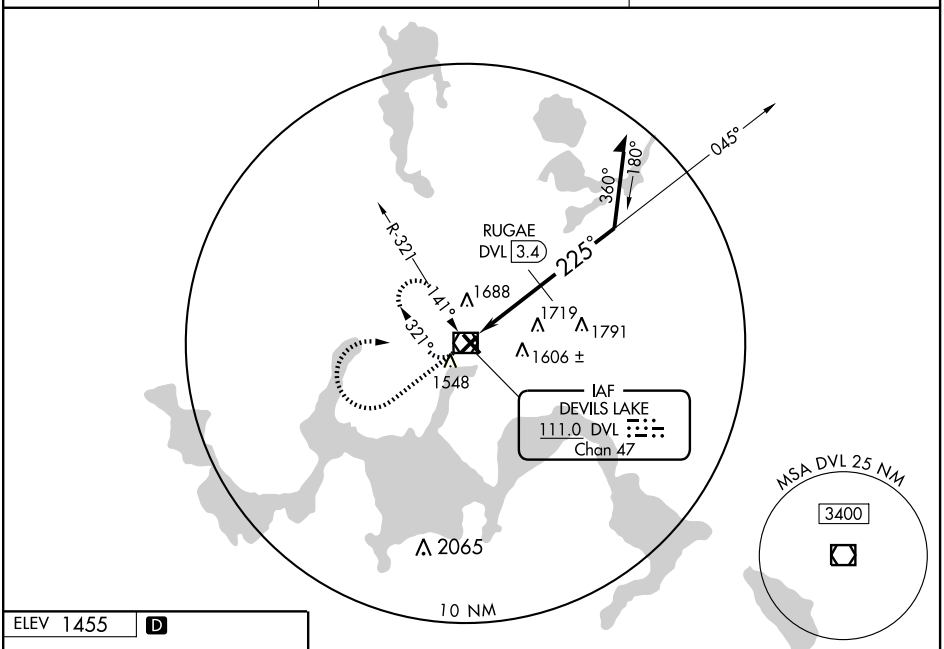
VOR/DME DVL	APP CRS	Rwy ldg	5039
111.0	225°	TDZE	1449
Chan 47		Apt Elev	1455

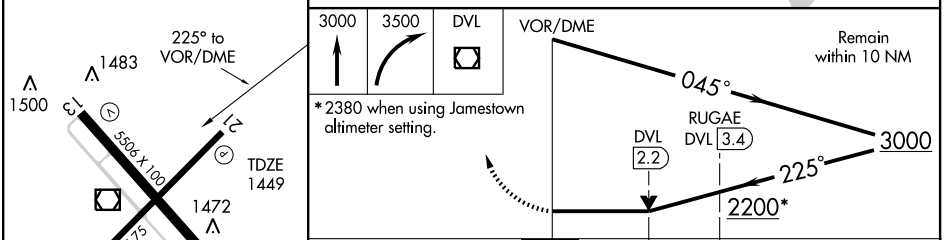
VOR RWY 21
DEVILS LAKE RGNL (DVL)

When local altimeter setting not received, use Jamestown altimeter setting and increase all MDA 180 feet, increase S-21 and Circling visibility Cat. A ¼ mile, Cat. C and D ½ mile, increase RUGAE FIX MINIMUMS S-21 and Circling visibility Cat. B to 1¼, Cat. C to 2¼ and Cat. D to 2½. VDP NA when using Jamestown altimeter setting.

MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct DVL VOR/DME and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-21	2200-1 751 (800-1)	2200-1¼ 751 (800-1¼)	2200-2¼ 751 (800-2¼)	2200-2½ 751 (800-2½)
CIRCLING	2200-1 745 (800-1)	2200-1¼ 745 (800-1¼)	2200-2¼ 745 (800-2¼)	2200-2½ 745 (800-2½)
RUGAE FIX MINIMUMS				
S-21	2020-1 571 (600-1)		2020-1½ 571 (600-1½)	2020-1¾ 571 (600-1¾)
CIRCLING	2020-1 565 (600-1)		2020-1½ 565 (600-1½)	2080-2 625 (700-2)

HIRL Rwy 13-31 L
REIL Rwy 13
REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VOR/DME DVL	APP CRS	Rwy ldg	4866
111.0	303°	TDZE	1448
Chan 47		Apt Elev	1455

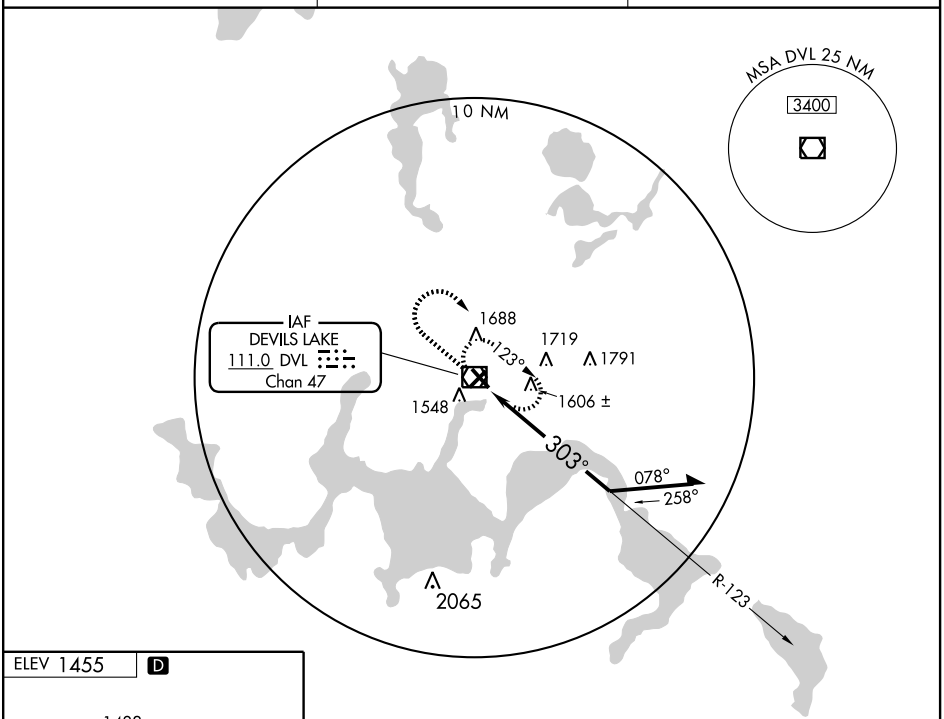
VOR RWY 31
DEVILS LAKE RGNL(DVL)

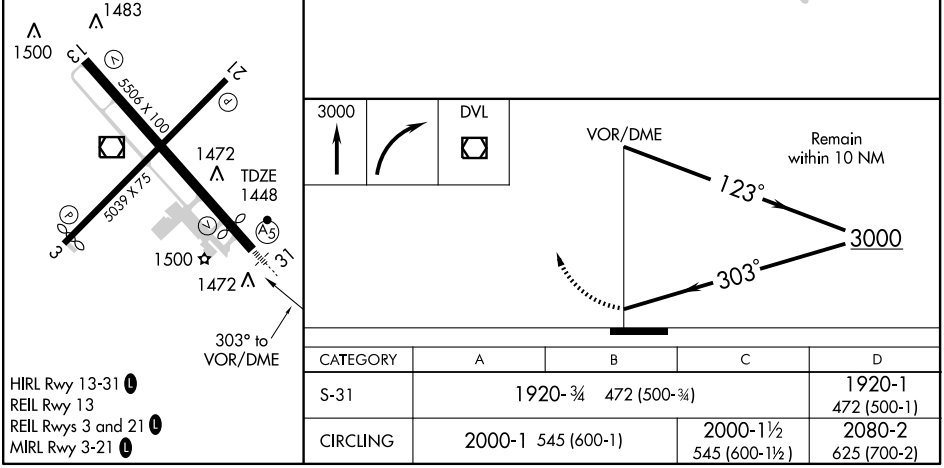
S-31 Cats A and B visibility increased ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 3000 then right turn direct DVL VOR/DME and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
125.875	122.3	122.8 (CTAF)





HIRL Rwy 13-31
REIL Rwy 13
REIL Rwys 3 and 21
MIRL Rwy 3-21

CATEGORY	A	B	C	D
S-31	1920-¾ 472 (500-¾)			1920-1 472 (500-1)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

DICKINSON–THEODORE ROOSEVELT RGNL (DIK) 5 S UTC−7(−6DT) N46°47.84′ W102°48.11′ BILLINGS

2592 B S4 **FUEL** 100LL, JET A TPA–See Remarks Class III, ARFF Index A H–2H, L–14F

NOTAM FILE DIK IAP

RWY 14–32: H6399X100 (ASPH–GRVD) S–30, D–37.5 MIRL

RWY 14: REIL. VASI(V4L)—GA 3.0° TCH 40′. Road.

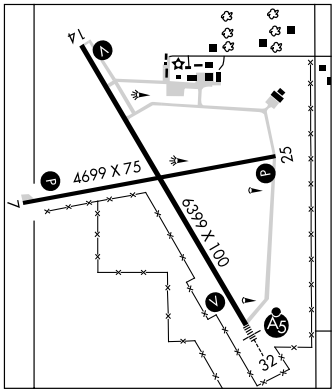
RWY 32: MALSR. VASI(V4L)—GA 3.0° TCH 40′.

RWY 07–25: H4699X75 (ASPH–GRVD) S–16, D–20 MIRL

0.4% up E

RWY 07: REIL. PAPI(P2L)—GA 3.0° TCH 25′.

RWY 25: REIL. PAPI(P2L)—GA 3.0° TCH 25′. Road.



RUNWAY DECLARED DISTANCE INFORMATION

RWY 07:	TORA–4700	TODA–4700	ASDA–4700	LDA–4700
RWY 14:	TORA–6400	TODA–6400	ASDA–6400	LDA–6400
RWY 25:	TORA–4700	TODA–4700	ASDA–4700	LDA–4700
RWY 32:	TORA–6400	TODA–6400	ASDA–6400	LDA–6400

AIRPORT REMARKS: Attended 1500–0000Z‡. For svc after hrs call 701–483–5824/260–4221. Birds on and invof arpt. Haying operations adjacent to all surfaces Jun–Sep. Crop dusting operations invof arpt. PAEW on movement areas during winter (Oct–Apr). TPA—single engine 3602 (1010); multiengine 4102 (1510). Conc apron for heavy acft parking. MIRL Rwys 07–25 and 14–32 preset on low ints dusk–0500Z‡; to increase ints after 0500Z‡ and ACTIVATE PAPI Rwy 07 and 25 and VASI Rwy 14 and Rwy 32, REIL Rwy 14, Rwy 07 and 25 and MALSR Rwy 32—CTAF.

WEATHER DATA SOURCES: ASOS 118.375 (701) 227–0280.

HIWAS 112.9 DIK.

COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.2 (GRAND FORKS RADIO)

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.

(H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 183° 3.9 NM to fld. 2527/14E. **HIWAS.**

NOSON NDB (LOM) 353 DI N46°41.30′ W102°42.75′ 320° 7.5 NM to fld. Unmonitored.

ILS 108.3 I–DIK Rwy 32. LOM NOSON NDB. Middle marker and outer marker unmonitored. Glide slope unusable byd 4° left of localizer course.

DRAYTON MUNI (D29) 3 N UTC−6(−5DT) N48°37.11′ W97°10.62′ TWIN CITIES

798 B NOTAM FILE GFK

RWY 17–35: H2600X60 (ASPH–AFSC) S–4 LIRL

RWY 35: Thld dsplcd 320′.

AIRPORT REMARKS: Unattended. For svc call 701–454–6588. Snow removal irregular. Confirm winter conditions before use, call 701–454–3590. Rwy 35 dsplcd thld ngt ops only. Rwy 17–35 sfc uneven and rutted. Rotating bcn OTS indef. LIRL Rwy 17–35 opr dusk–0600Z‡, after 0600Z‡, ACTIVATE LIRL Rwy 17–35 CTAF.

COMMUNICATIONS: CTAF 122.9

DUNSEITH

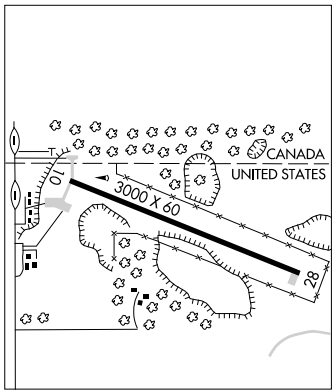
INTL PEACE GARDEN (S28) 11 N UTC−6(−5DT) N48°59.87′ W100°02.61′ TWIN CITIES

2314 LRA NOTAM FILE GFK L–14F

RWY 10–28: H3000X60 (ASPH–AFSC) S–12.5

RWY 10: Tower. **RWY 28:** Trees.

AIRPORT REMARKS: Unattended. Deer on and in vicinity of arpt. Rwy 10 has −20′ dropoff 400′ from thld. Rwy 10 +46′ twr 858′ from thld 221′ left. Snow plowed irregularly, confirm winter conditions prior to use 701–328–9650 Mon–Fri 1400–2300Z‡. Custom station hours Sep 16–May 14 1400–0600Z‡ with 24 hour svc avbl remainder of year.



COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MOT.

MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62′ W101°17.22′ 035° 66.4 NM to fld. 1691/13E. **HIWAS.**

LOC I-DIK	APP CRS	Rwy ldg	6399
108.3	320°	TDZE	2591
		Apt Elev	2592

AL-120 (FAA)

ILS or LOC RWY 32

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

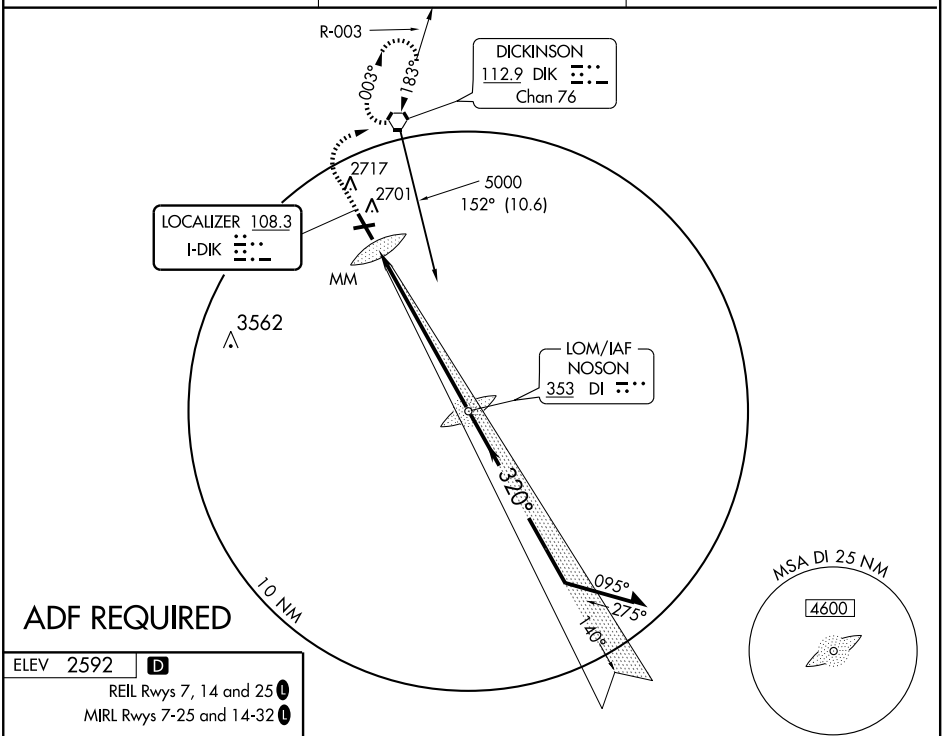
If local altimeter not received, use Bowman Muni altimeter setting and increase S-ILS DA to 3058 and all MDAs 280 feet.

NA

MALSR

MISSED APPROACH: Climb to 5000 then right turn direct DIK VORTAC and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.375	124.25 380.3	123.0 (CTAF) L

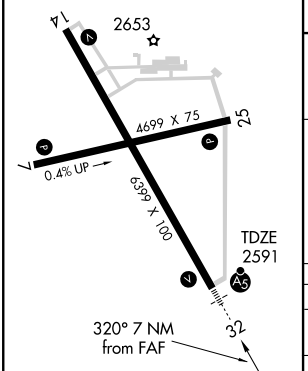


ADF REQUIRED

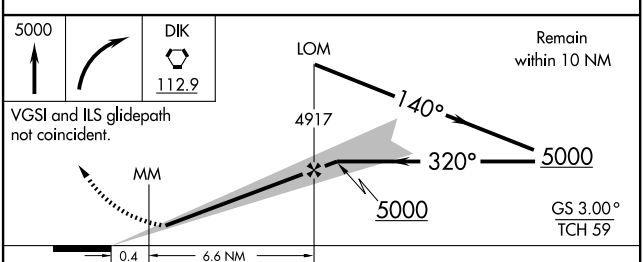
ELEV 2592 D

REIL Rwys 7, 14 and 25 L

MIRL Rwys 7-25 and 14-32 L



FAF to MAP 7 NM					
Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20



CATEGORY	A	B	C	D
S-ILS 32	2791-½ 200 (200-½)			
S-LOC 32	3080-½ 489 (500-½)		3080-¾ 489 (500-¾)	3080-1 489 (500-1)
CIRCLING	3080-1 488 (500-1)		3080-1½ 488 (500-1½)	3160-2 568 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 56211 W14A	APP CRS 140°	Rwy ldg 6399 TDZE 2589 Apt Elev 2592

RNAV (GPS) RWY 14

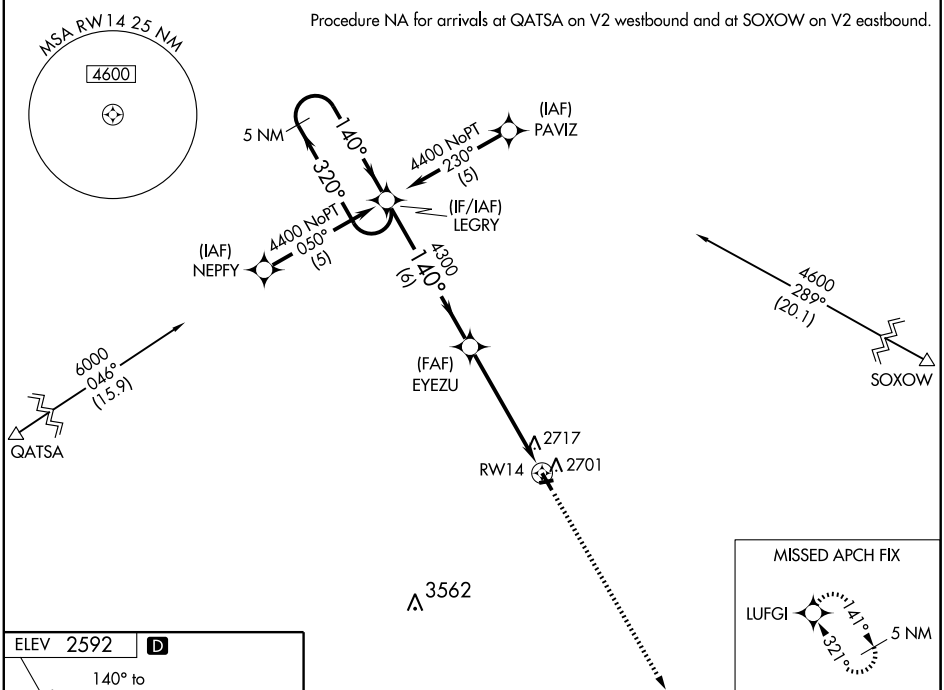
DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

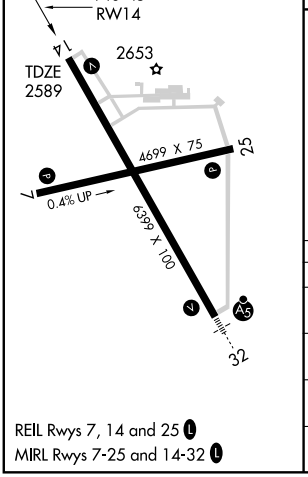
DME/DME RNP- 0.3 NA. Baro-VNAV NA below -20°C (-4°F).
VDP and Baro/VNAV NA when using Bowman Muni altimeter setting. If local altimeter not received, use Bowman Muni altimeter setting and increase all DAs/MDAs 280 feet.

MISSED APPROACH: Climb to 5000 direct LUFGI and hold.

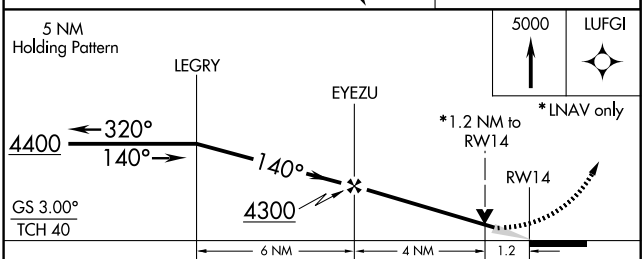
ASOS	MINNEAPOLIS CENTER	UNICOM
118.375	124.25 380.3	123.0 (CTAF) L

Procedure NA for arrivals at QATSA on V2 westbound and at SOXOW on V2 eastbound.





REIL Rwys 7, 14 and 25 L
MIRL Rwys 7-25 and 14-32 L



CATEGORY	A	B	C	D
LPV DA	2840-1 251 (300-1)			
LNAV/VNAV DA	3060-1¾ 471 (500-1¾)			
LNAV MDA	3020-1 431 (500-1)		3020-1¼ 431 (500-1¼)	3020-1½ 431 (500-1½)
CIRCLING	3080-1¾ 488 (500-1¾)			3160-2 568 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

AL-120 (FAA)

RNAV (GPS) RWY 32

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

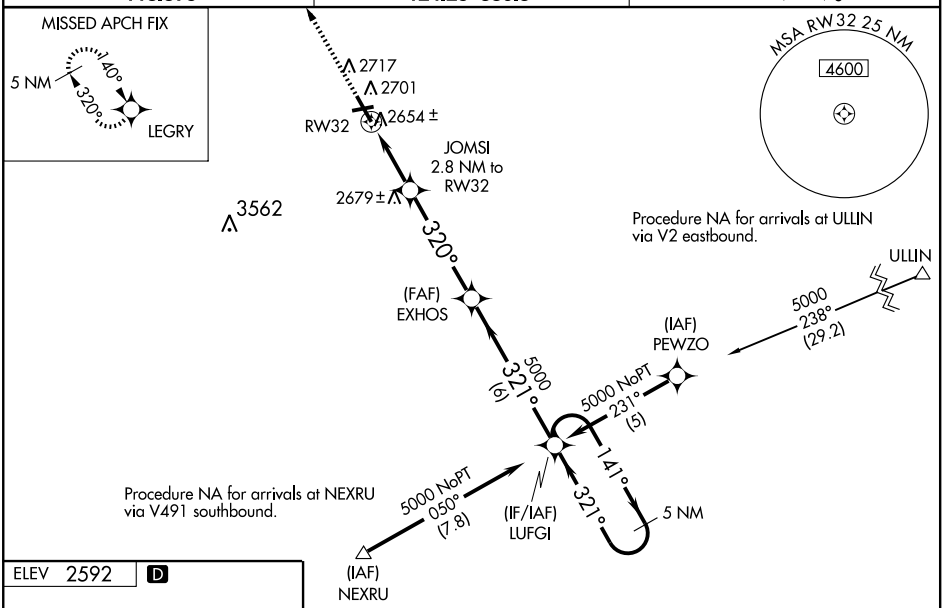
WAAS CH 45512 W32A	APP CRS 320°	Rwy ldg 6399 TDZE 2591 Apt Elev 2592

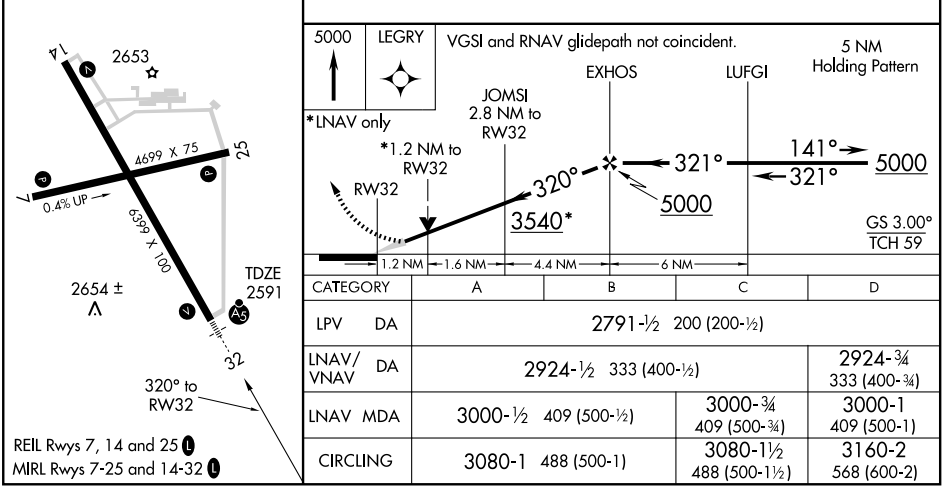
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 44°C (111°F). DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Bowman altimeter setting and increase all DA 266 feet, all MDA 280 feet, increase LPV all Cats visibility ½ mile, LNAV/VNAV Cats A/B/C visibility 1 mile, Cat D visibility ¾ mile, LNAV Cats C/D visibility ¾ mile, Circling Cat B visibility ¼ mile, Cats C/D visibility ¾ mile. For inoperative MALSR when using Bowman altimeter setting, increase LPV all Cats visibility to 1½ , LNAV/VNAV all Cats visibility to 2, LNAV Cat C visibility to 2 and Cat D visibility to 2 ¼ . For inoperative MALSR, increase LNAV/VNAV Cat D visibility to 1 and LNAV Cat D visibility to 1¼ . VDP and Baro-VNAV NA when using Bowman altimeter setting.

MALSR

MISSED APPROACH Climb to 5000 direct LEGRY and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.375	124.25 380.3	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2791-½ 200 (200-½)			
LNAV/VNAV DA	2924-½ 333 (400-½)			2924-¾ 333 (400-¾)
LNAV MDA	3000-½ 409 (500-½)		3000-¾ 409 (500-¾)	3000-1 409 (500-1)
CIRCLING	3080-1 488 (500-1)		3080-1½ 488 (500-1½)	3160-2 568 (600-2)

46° 48'N - 102° 48'W

NC-1, 21 OCT 2010 to 18 NOV 2010

VORTAC DIK	APP CRS	Rwy ldg	N/A
112.9	183°	TDZE	N/A
Chan 76		Apt Elev	2592

AL-120 (FAA)

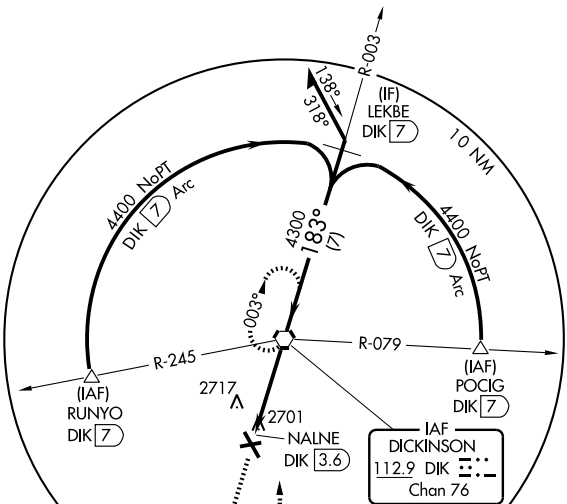
VOR-A

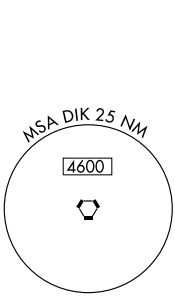
DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

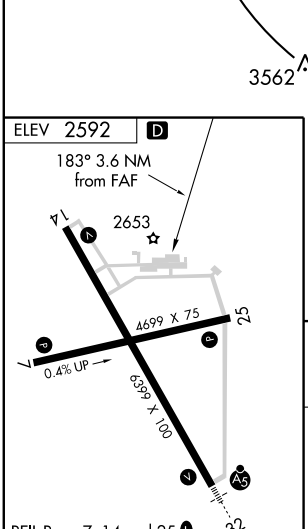
If local altimeter setting not received, use Bowman Muni altimeter setting and increase all MDAs 280 feet.

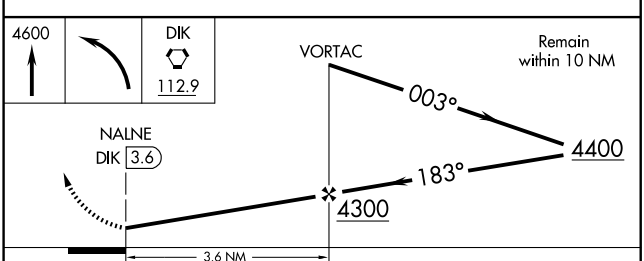
MISSED APPROACH: Climb to 4600 then turn left direct DIK VORTAC and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.375	124.25 380.3	123.0 (CTAF) L









FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

CATEGORY	A	B	C	D
CIRCLING	3080-1	488 (500-1)	3080-1½ 488 (500-1½)	3160-2 568 (600-2)

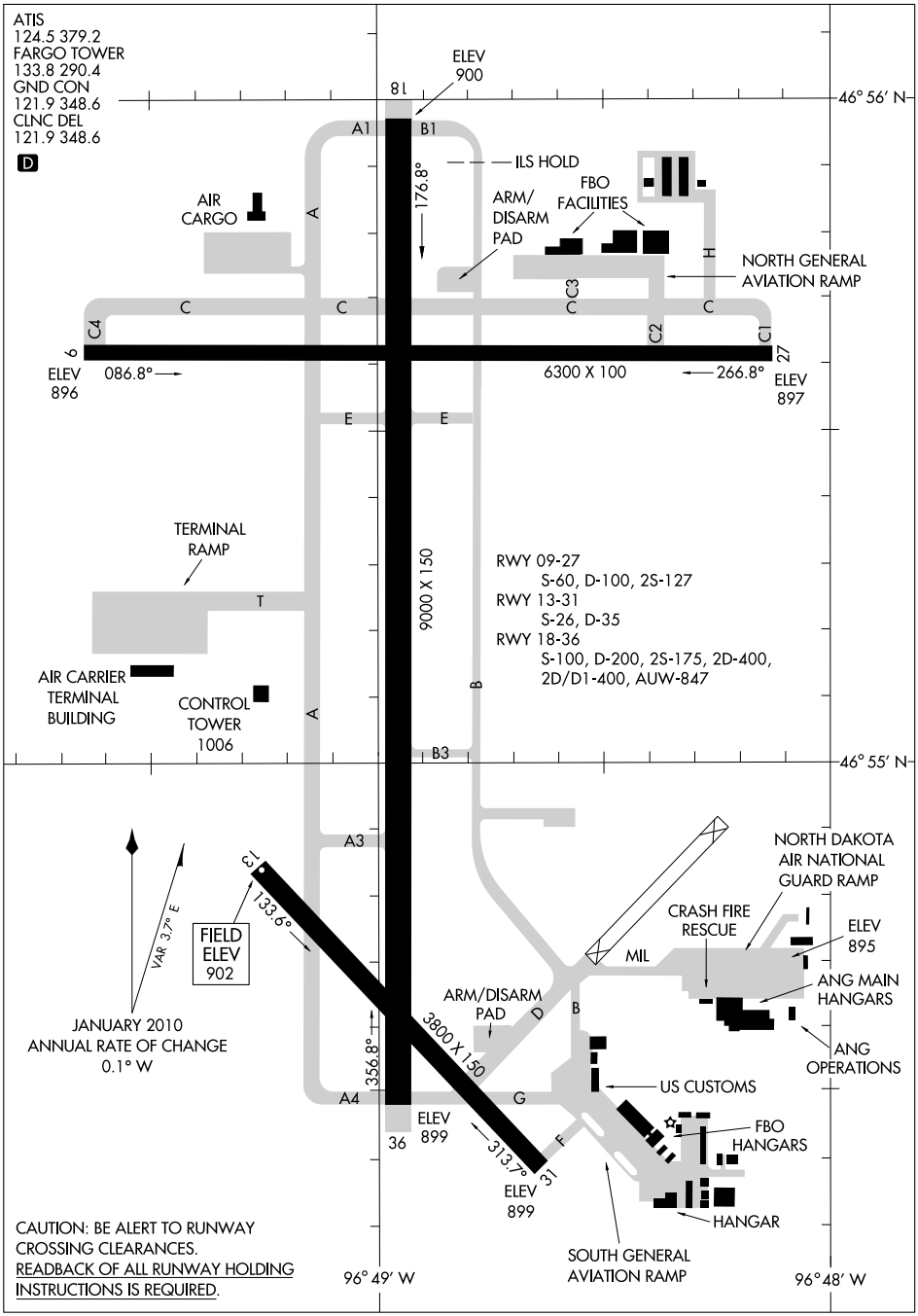
NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

AIRPORT DIAGRAM

FARGO/HECTOR INTL(FAR)
FARGO, NORTH DAKOTA

AL-144 (FAA)



NC-1, 21 OCT 2010 to 18 NOV 2010

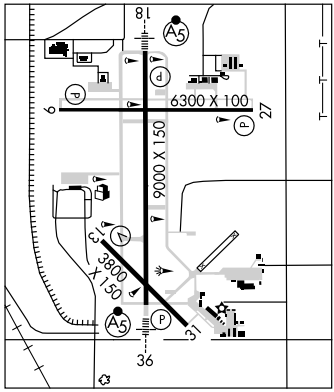
NC-1, 21 OCT 2010 to 18 NOV 2010

AIRPORT DIAGRAM
FARGO, NORTH DAKOTA
FARGO/HECTOR INTL(FAR)
10210

FARGO

HECTOR INTL (FAR) 3 NW UTC−6(−5DT) N46°55.24′ W96°48.95′ TWIN CITIES

902 B S4 **FUEL** 100LL, JET A, JET 8 OX 1, 2, 3, 4 TPA—See Remarks AOE H–2I, L–14G
Class I, ARFF Index C NOTAM FILE FAR IAP, AD



RWY 18–36: H9000X150 (CONC–GRVD) S–100, D–200, 2S–175, 2D–400, 2D/D1–400, AUW–847 HIRL
RWY 18: MALSR. PAPI(P4L)—GA 3.0° TCH 68′.
RWY 36: MALSR. PAPI(P4R)—GA 3.0° TCH 71′.
RWY 09–27: H6300X100 (CONC–GRVD) S–60, D–100, 2S–127 MIRL
RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 42′.
RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 26′.
RWY 13–31: H3800X150 (ASPH–CONC) S–26, D–35 MIRL
RWY 13: VASI(V4L)—GA 3.0° TCH 61′. Road. **RWY 31:** Road.
RUNWAY DECLARED DISTANCE INFORMATION

RWY 09:	TORA–6300	TODA–6300	ASDA–6300	LDA–6300
RWY 13:	TORA–3800	TODA–3800	ASDA–3800	LDA–3800
RWY 18:	TORA–9000	TODA–9000	ASDA–9000	LDA–9000
RWY 27:	TORA–6300	TODA–6300	ASDA–6300	LDA–6300
RWY 31:	TORA–3800	TODA–3800	ASDA–3800	LDA–3800
RWY 36:	TORA–9000	TODA–9000	ASDA–9000	LDA–9000
RWY 38:	TORA–9000	TODA–9000	ASDA–9000	LDA–9000

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. Rwy 13–31 not avbl for air carrier ops with 10 or more passenger seats. East twy paralleling Rwy 18–36, clsd to acft over 130,000 lbs. Rwy 18–36 TPA for turbine acft 1902 (1000), TPA for piston acft 1802 (900). Flight Notification Service (ADCUS) available Mon–Fri 1430–2300Z‡.
WEATHER DATA SOURCES: ASOS (701) 298–3877. **HIWAS** 116.2 FAR.
COMMUNICATIONS: ATIS 124.5 **UNICOM** 122.95
FARGO RCO 122.425 (GRAND FORKS RADIO)
Ⓡ **FARGO APP/DEP CON** 120.4 125.125 (1200–0500Z‡)
FARGO TOWER 133.8 **GND CON** 121.9 **CLNC DEL** 121.9
Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.35 (0500–1200Z‡)
AIRSPACE: TRSA svc ctc **APP CON** within 20 NM.
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 359° 10.1 NM to fld. 910/9E.
HIWAS.
KENIE NDB (HW/LOM) 365 AA N47°00.56′ W96°48.91′ 174° 5.3 NM to fld.
ILS 110.3 I–FAR Rwy 36. Class 1E.
ILS 108.9 I–AAM Rwy 18. Class IE. LOM KENIE NDB.

WEST FARGO MUNI (D54) 6 NW UTC−6(−5DT) N46°54.05′ W96°55.12′ TWIN CITIES

896 B S4 OX 1, 2 TPA—1696(800) NOTAM FILE GFK L–14G
RWY 18–36: H3300X50 (ASPH) S–12.5 LIRL
RWY 18: Road. Rgt tfc. **RWY 36:** Tower.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. Parachute Jumping on and invof arpt. Deer and birds on and invof arpt. Confirm winter conditions after major storm–call 701–281–9394, or cell 701–866–4970. ACTIVATE LIRL Rwy 18–36—CTAF.
COMMUNICATIONS: CTAF 122.7
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 334° 9.3 NM to fld. 910/9E.
HIWAS.

FESSENDEN MUNI (D24) 3 NW UTC−6(−5DT) N47°39.58′ W99°39.66′ TWIN CITIES

1619 NOTAM FILE GFK
RWY 08–26: 2940X120 (TURF) LIRL
RWY 08: Road. **RWY 26:** Trees.
AIRPORT REMARKS: Unattended. Waterfowl and deer on or invof arpt during migratory season. Dalgt cone markers at rwy thlds, and stopway areas. Rwy 08 has 5′ dropoff 30′ from thld. No snow removal avbl—confirm condition prior to use Oct–Apr. ACTIVATE LIRL Rwy 08–26—CTAF.
COMMUNICATIONS: CTAF 122.9

LOC I-AAM	APP CRS	Rwy ldg	9000
108.9	176°	TDZE	900
		Apt Elev	902

ILS or LOC RWY 18

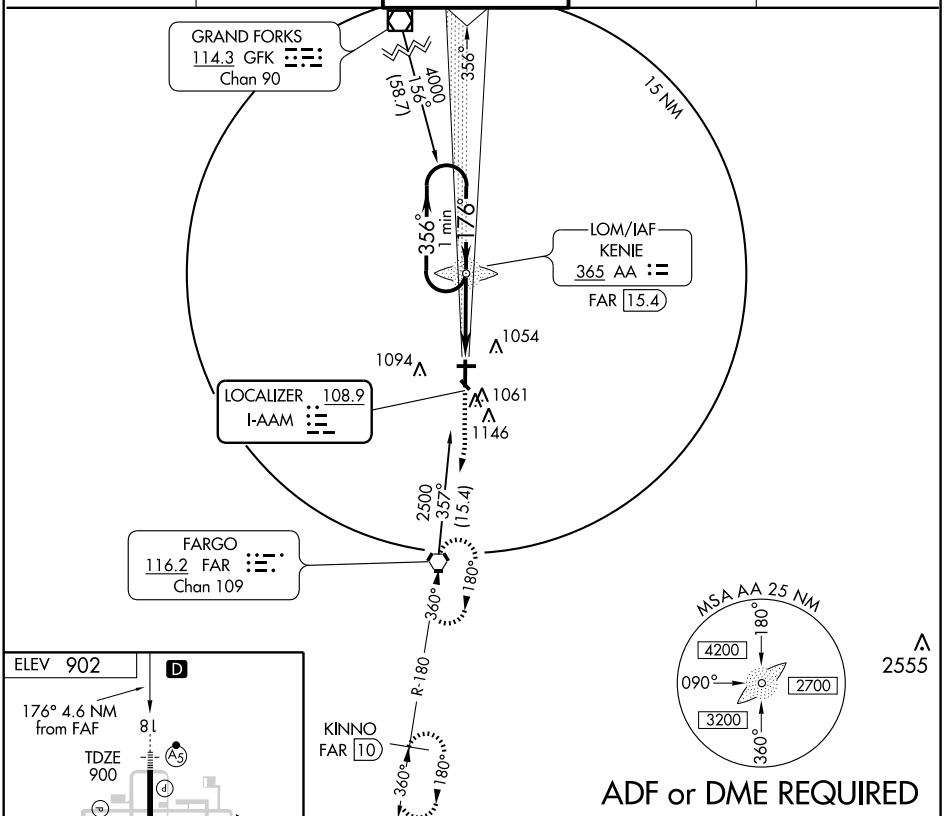
FARGO/HECTOR INTL (FAR)

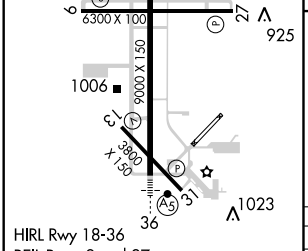
For inoperative MALSR, increase S-ILS 18 Cat E visibility to RVR 4000, and S-LOC 18 Cat E visibility to RVR 5000. * Visibility CAT A/B/C/D RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 2500 direct FAR VORTAC and hold. (TACAN aircraft climb to 3500 direct FAR VORTAC, then via FAR R-180 to KINNO/FAR 10 DME and hold S, RT, 360° inbound.)

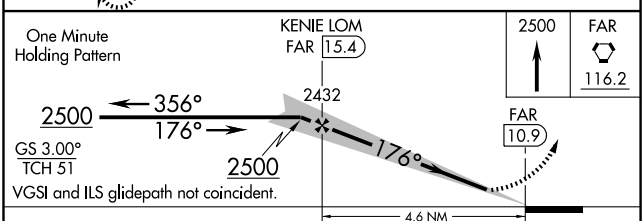
ATIS	FARGO APP CON*	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6





HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32



CATEGORY	A	B	C	D	E
S-ILS 18	*1100/24 200 (200-½)				
S-LOC 18	1260/24 360 (400-½)			1260/40 360 (400-¾)	
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

LOC I-FAR	APP CRS	Rwy ldg	9000
110.3	356°	TDZE	899
		Apt Elev	902

ILS or LOC RWY 36

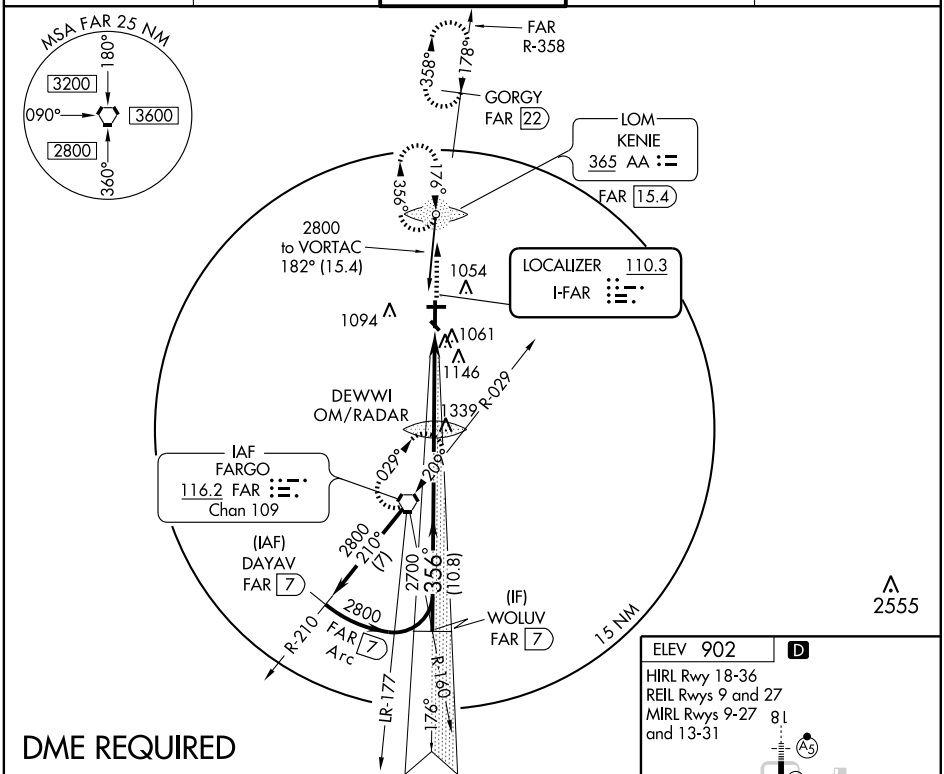
FARGO/HECTOR INTL (FAR)

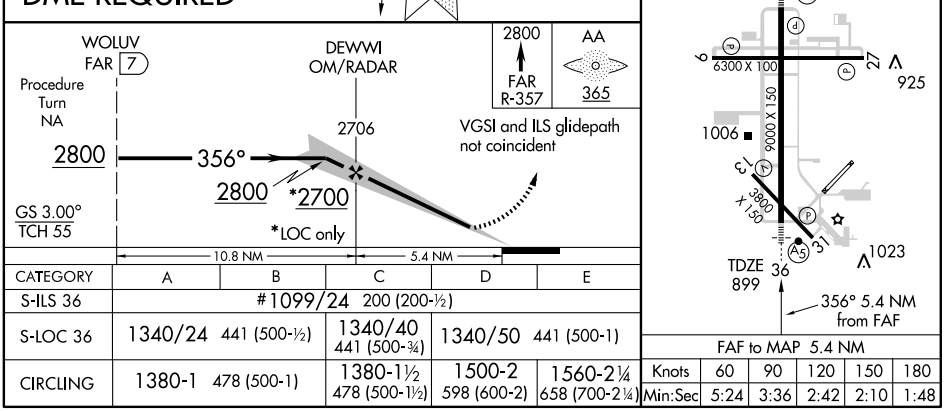
For inoperative MALSR, increase S-ILS 36 Cat E visibility to RVR 4000, and S-LOC 36 Cat E visibility to 1½.
Visibility CAT A/B/C/D RVR 1800 authorized with the use of FD or AP or HUD to DA. ADF or DME required.

MALSR

MISSED APPROACH: Climb via FAR R-357 to 2800 direct KENIE LOM and hold. (DME aircraft climb to 4000 via FAR R-358 to GORGY/FAR 22 DME and hold N, RT, 178° inbound.)

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6





CATEGORY	A	B	C	D	E
S-ILS 36	#1099/24 200 (200-½)				
S-LOC 36	1340/24 441 (500-½)		1340/40 441 (500-¾)	1340/50 441 (500-1)	
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

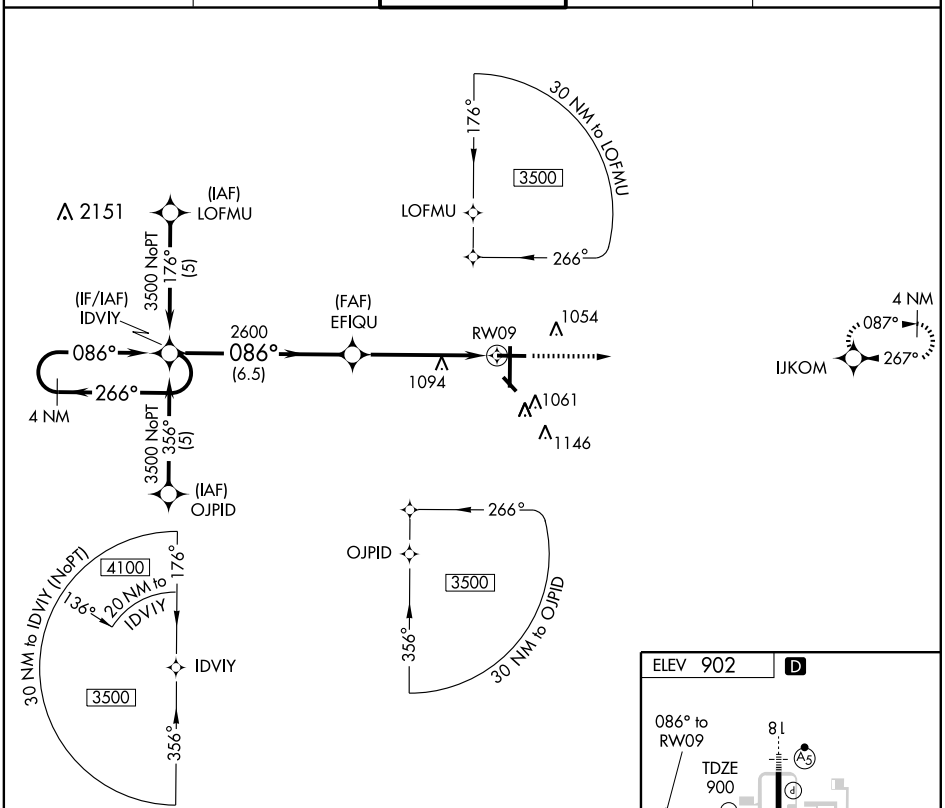
APP CRS	Rwy ldg	6300
086°	TDZE	900
	Apt Elev	902

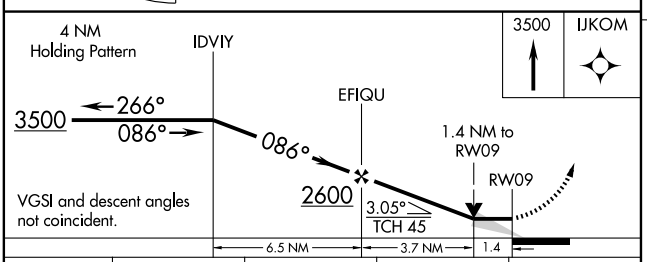
RNAV (GPS) RWY 9
FARGO/HECTOR INTL (FAR)

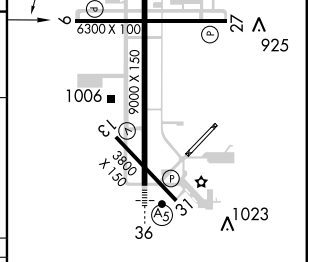
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 direct IJKOM and hold.

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6







CATEGORY	A	B	C	D
LNAV MDA	1360-1 460 (500-1)		1360-1¼ 460 (500-1¼)	1360-1½ 460 (500-1½)
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)

HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

RNAV (GPS) RWY 18

FARGO/HECTOR INTL (FAR)

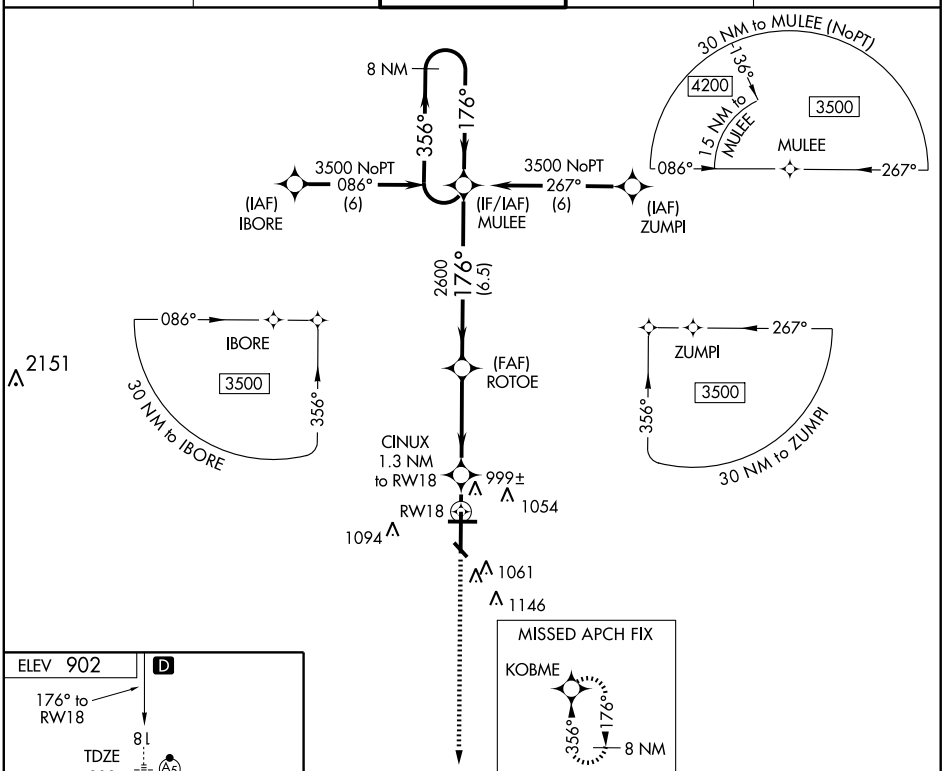
WAAS	APP CRS	Rwy ldg	9000
CH 40006	176°	TDZE	900
W18A		Apt Elev	902

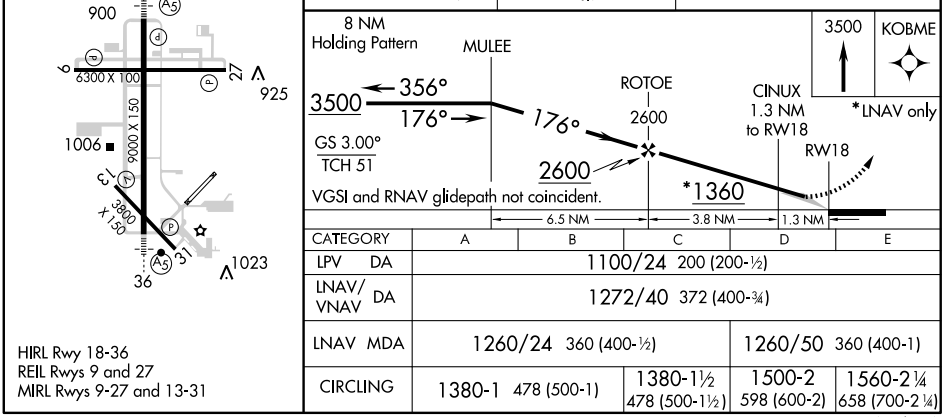
For inoperative MALSR, increase LPV Cat E visibility to RVR 4000 and LNAV/VNAV Cat E and LNAV Cat D and E to RVR 6000.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 3500 direct KOBME and hold.

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6





HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31

CATEGORY	A	B	C	D	E
LPV DA	1100/24 200 (200-½)				
LNAV/VNAV DA	1272/40 372 (400-¾)				
LNAV MDA	1260/24 360 (400-½)			1260/50 360 (400-1)	
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	6300
267°	TDZE	898
	Apt Elev	902

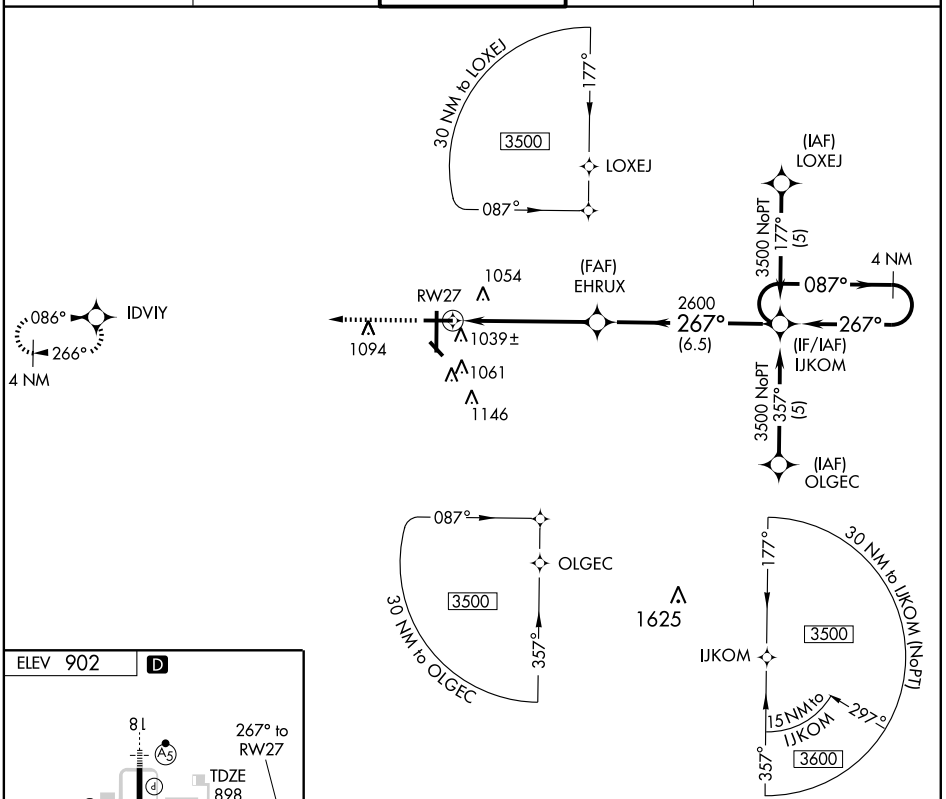
RNAV (GPS) RWY 27

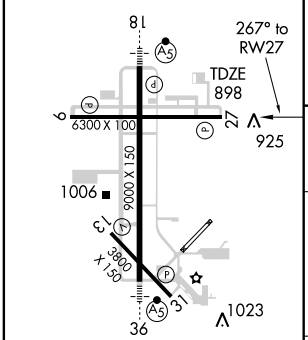
FARGO/HECTOR INTL (FAR)

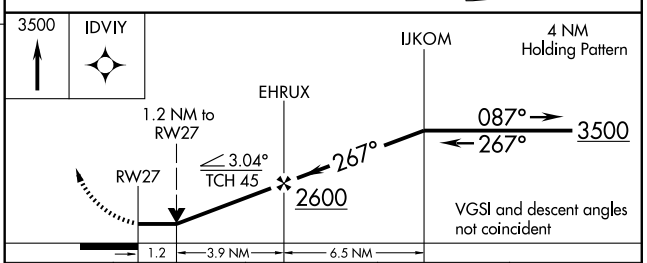
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 direct IDVIY and hold.

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6







HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31

CATEGORY	A	B	C	D
LNAV MDA	1300-1 402 (400-1)		1300-1¼ 402 (400-1¼)	
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)

AL-144 (FAA)

RNAV (GPS) RWY 36

FARGO/HECTOR INTL (FAR)

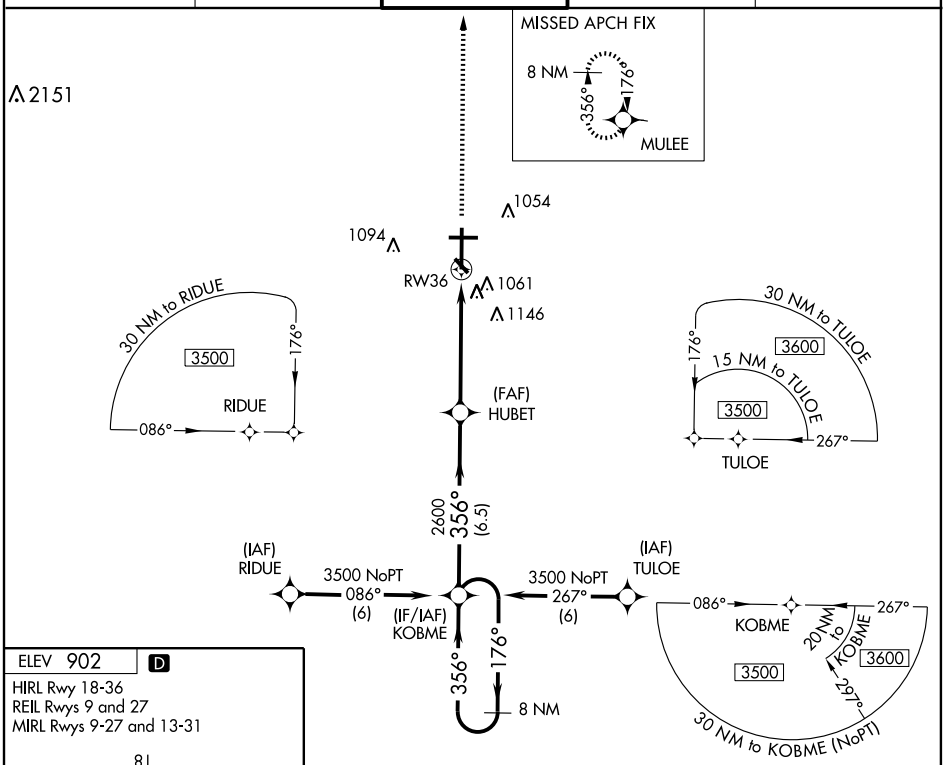
WAAS CH 50106 W36A	APP CRS 356°	Rwy ldg 9000 TDZE 899 Apt Elev 902

DME/DME RNP -0.3 NA.
Baro-VNAV NA below -16°C (4°F).
For inoperative MALSR, increase LPV Cat E visibility to RVR 4000, and increase LNAV/VNAV and LNAV Cat E visibility to 1¾ mile.

MALSR

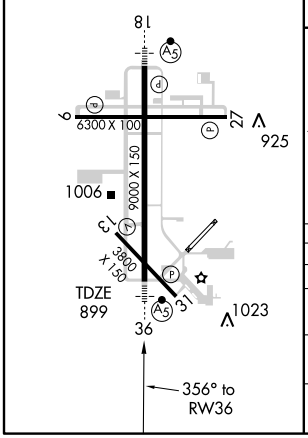
MISSED APPROACH: Climb to 3500 direct MULEE and hold.

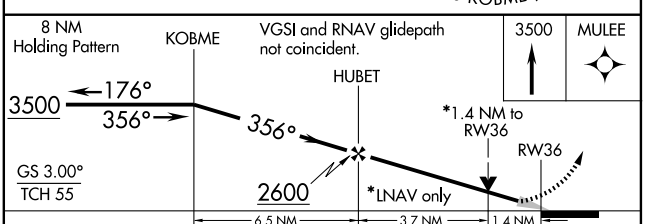
ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6



ELEV 902 D

HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31





CATEGORY	A	B	C	D	E
LPV DA	1150/24 251 (300-½)				
LNAV/VNAV DA	1360/50 461 (500-1)				1360/60 461 (500-1¼)
LNAV MDA	1420/24 521 (600-½)		1420/50 521 (600-1)	1420/60 521 (600-1¼)	
CIRCLING	1420-1½ 518 (600-1½)			1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

VORTAC FAR	APP CRS	Rwy ldg	9000
116.2	179°	TDZE	900
Chan 109		Apt Elev	902

VOR/DME or TACAN RWY 18

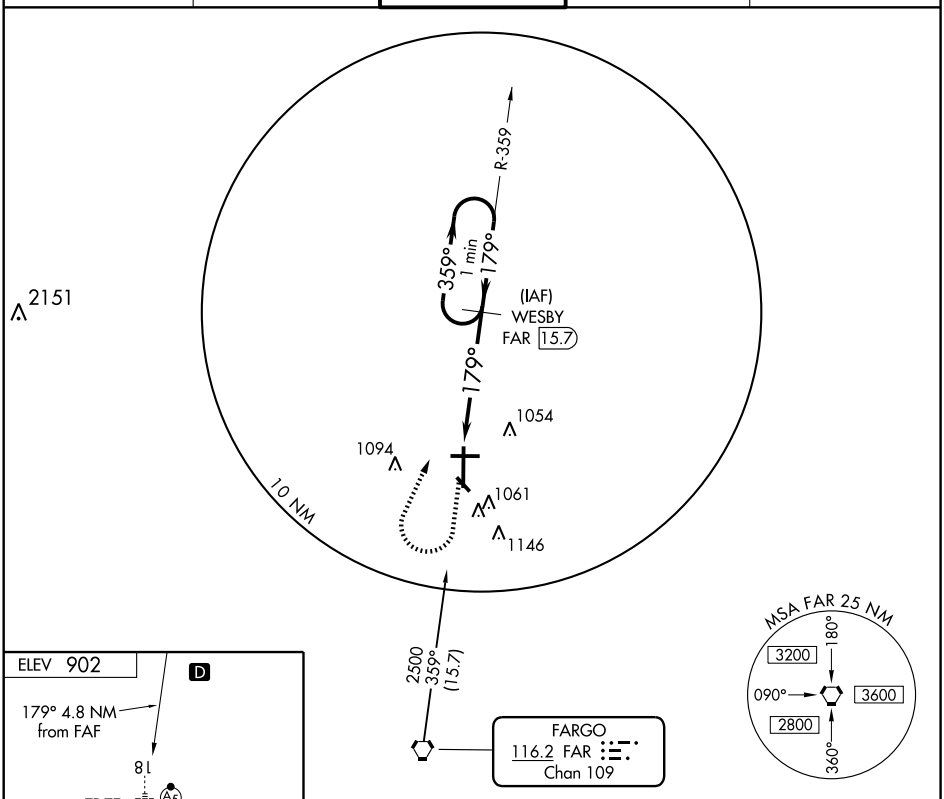
FARGO/HECTOR INTL (FAR)

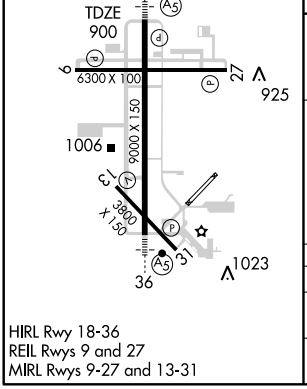
For inoperative MALSR, increase Cat D visibility to RVR 6000 and Cat E to 1½.

MALSR

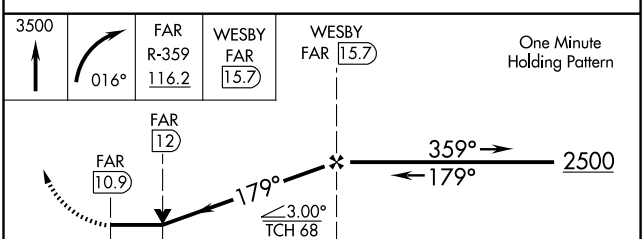
MISSED APPROACH: Climb to 3500 then right turn via heading 016° and FAR R-359 to WESBY/15.7 DME and hold.

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6





HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31



CATEGORY	A	B	C	D	E
S-18	1320/24	420 (500-½)	1320/40 420 (500-¾)	1320/50	420 (500-1)
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VORTAC FAR 116.2 Chan 109	APP CRS 360°	Rwy ldg 9000 TDZE 899 Apt Elev 902

VOR or TACAN RWY 36

FARGO/HECTOR INTL (FAR)

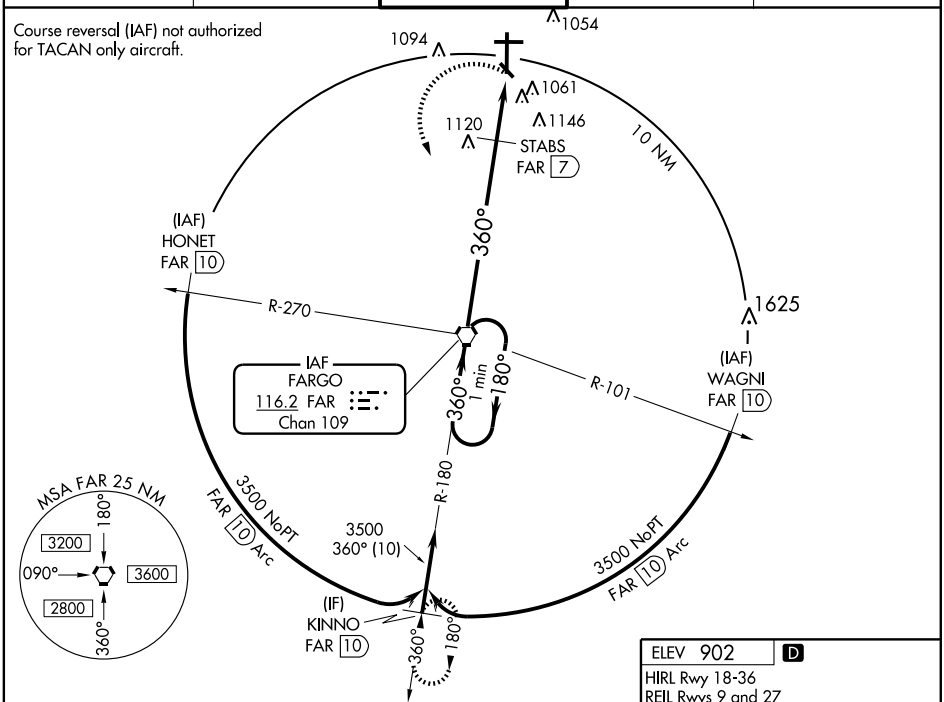
VOR MINIMUMS: For inoperative MALSR, increase S-36 Cat E visibility to 2½ miles.
STABS FIX MINIMUMS: For inoperative MALSR, increase S-36 Cat E visibility to 1¾ mile.

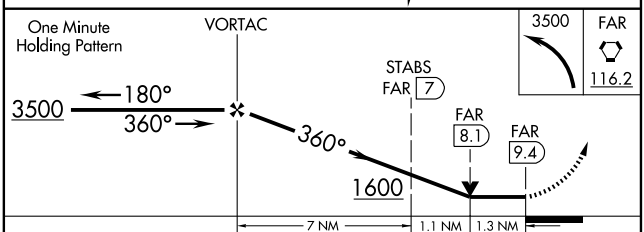
MALSR

MISSED APPROACH: Climbing left turn to 3500 direct FAR VORTAC and hold. (TACAN aircraft climbing left turn to 3500 direct FAR VORTAC, then via FAR R-180 to KINNO/FAR 10 DME and hold South, right turns, 360° inbound.)

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6

Course reversal (IAF) not authorized for TACAN only aircraft.

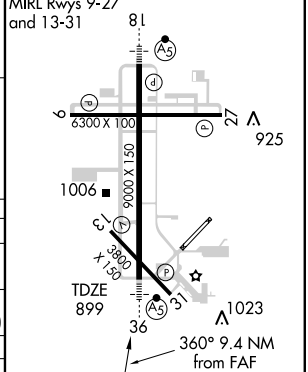




CATEGORY	A	B	C	D	E
S-36	1600/24 701 (700-½)		1600-1½ 701 (700-1½)	1600-1¾ 701 (700-1¾)	1600-2 701 (700-2)
CIRCLING	1600-1 698 (700-1)		1600-2 698 (700-2)	1600-2¼ 698 (700-2¼)	1600-2½ 698 (700-2½)
STABS FIX MINIMUMS					
S-36	1380/24 481 (500-½)		1380/40 481 (500-¾)	1380/50 481 (500-1)	1380/60 481 (500-1¼)
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

ELEV 902 D

HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31



FAF to MAP 9.4 NM					
Knots	60	90	120	150	180
Min:Sec	9:24	6:16	4:42	3:46	3:08

NC-1, 21 OCT 2010 to 18 NOV 2010

FORT YATES

STANDING ROCK (Y27) 1 S UTC−6(−5DT) N46°04.02′ W100°37.97′ TWIN CITIES

1633 NOTAM FILE GFK L–14F

RWY 14–32: H3700X60 (ASPH) S–11.5

RWY 14: Tree. **RWY 32:** P-line.

AIRPORT REMARKS: Unattended. Birds, waterfowl and deer on and invof arpt. Confirm snow removal Oct–Apr call 701–854–7432/7400. +18′ irrigators located 130′ left and right of centerline near S half Rwy14–32 violate 7:1 transition zone. +15′ dirt trail on twy across rwy surface east to grvl pit.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 166° 41.8 NM to fld. 1841/12E. **HIWAS.**

GACKLE MUNI (9G9) 1 SW UTC−6(−5DT) N46°37.00′ W99°10.02′ TWIN CITIES

1904 NOTAM FILE GFK

RWY 17–35: 2000X40 (TURF)

RWY 17: Road. **RWY 35:** Road.

RWY 08–26: 2000X60 (TURF)

AIRPORT REMARKS: Unattended. Arpt CLOSED winter due to lack of snow removal. Pilots at end of rwy cannot see acft at opposite end of rwy due to rwy gradient. Birds on and in vicinity of arpt May–Oct. Rwy 17–35 and Rwy 08–26 marked for dalgt by yellow barrel halves. Some animal holes possible both rwys. Rwy 17–35 and Rwy 08–26 turf surface rolling, grass clumpy and possible holes. Trail crossing located 60′ inboard Rwy 26.

COMMUNICATIONS: CTAF 122.9

GARRISON DAM RECREATIONAL AIRPARK (See RIVERDALE)

GARRISON MUNI (DØ5) 1 W UTC−6(−5DT) N47°39.36′ W101°26.23′ BILLINGS

1935 **FUEL** 100LL NOTAM FILE GFK L–14F

RWY 13–31: H3700X60 (ASPH–AFSC) S–12.5 LIRL 0.8% up NW IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 29′. Road. **RWY 31:** PAPI(P2L)—GA 3.0° TCH 29′.

RWY 03–21: 2900X120 (TURF)

RWY 03: Road. **RWY 21:** Trees.

AIRPORT REMARKS: Unattended. 24 hr self svc credit card fuel avbl. Wildlife and birds on and invof arpt. To confirm snow removal after major storms call manager 701–337–2294 or 463–2600 City Hall. Rwy 03–21 CLSD winter months due to lack of snow removal. Rwy 03–21 red/white dalgt markers only. LIRL Rwy 13–31, PAPI Rwy 13 and PAPI Rwy 31 open dusk–0500Z‡ after 0500Z‡ ACTIVATE—CTAF.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 127.6

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 318° 62.3 NM to fld. 1841/12E. **HIWAS.**

GLEN ULLIN RGNL (D57) 2 W UTC−6(−5DT) N46°48.77′ W101°51.61′ BILLINGS

2089 B **FUEL** 100LL NOTAM FILE GFK L–14F

RWY 11–29: H3800X60 (ASPH) S–12.5 MIRL

RWY 11: PAPI(P2L)—GA 3.0° TCH 25′. **RWY 29:** PAPI(P2L)—GA 3.0° TCH 25′. Trees.

AIRPORT REMARKS: Unattended. For fuel call 701–348–3170/3683. To confirm irregular snow removal and winter condition call 701–348–3170/3683. ACTIVATE MIRL Rwy 11–29 and PAPI Rwy 11 and Rwy 29—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 262° 49.3 NM to fld. 1841/12E. **HIWAS.**

APP CRS	Rwy ldg	3700
131°	TDZE	1935
	Apt Elev	1935

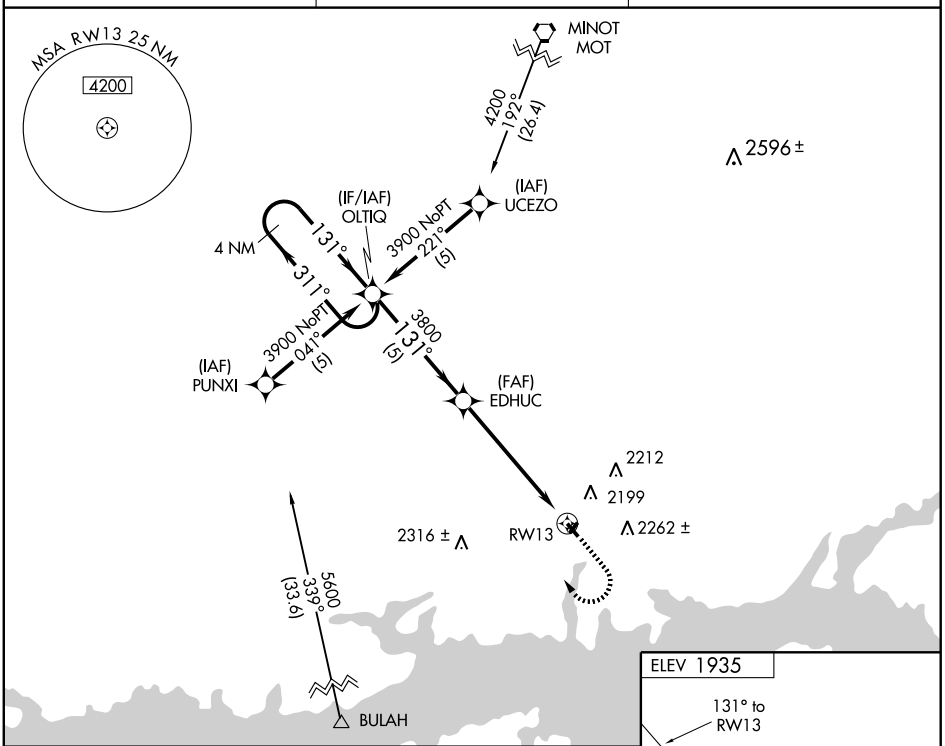
RNAV (GPS) RWY 13
GARRISON MUNI (D05)

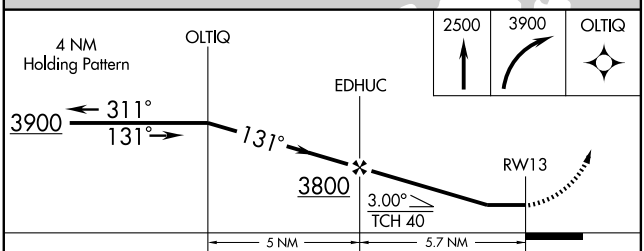
NA

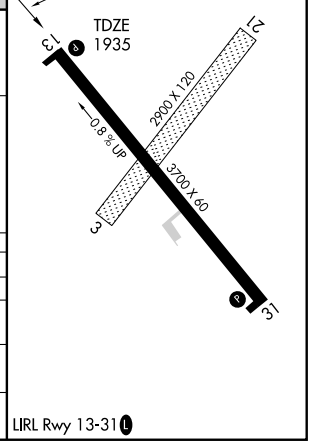
DME/DME RNP 0.3- NA.
Use Minot Intl altimeter setting.

MISSED APPROACH: Climb to 2500 then climbing right turn to 3900 direct OLTIQ WP and hold.

MINOT ASOS	MINNEAPOLIS CENTER	CTAF
118.725	127.6 279.6	122.9 L







CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2500-1 565 (600-1)		NA	
CIRCLING	2680-1 745 (800-1)	2680-1¼ 745 (800-1¼)	NA	

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APP CRS	Rwy ldg	3700
311°	TDZE	1925
	Apt Elev	1935

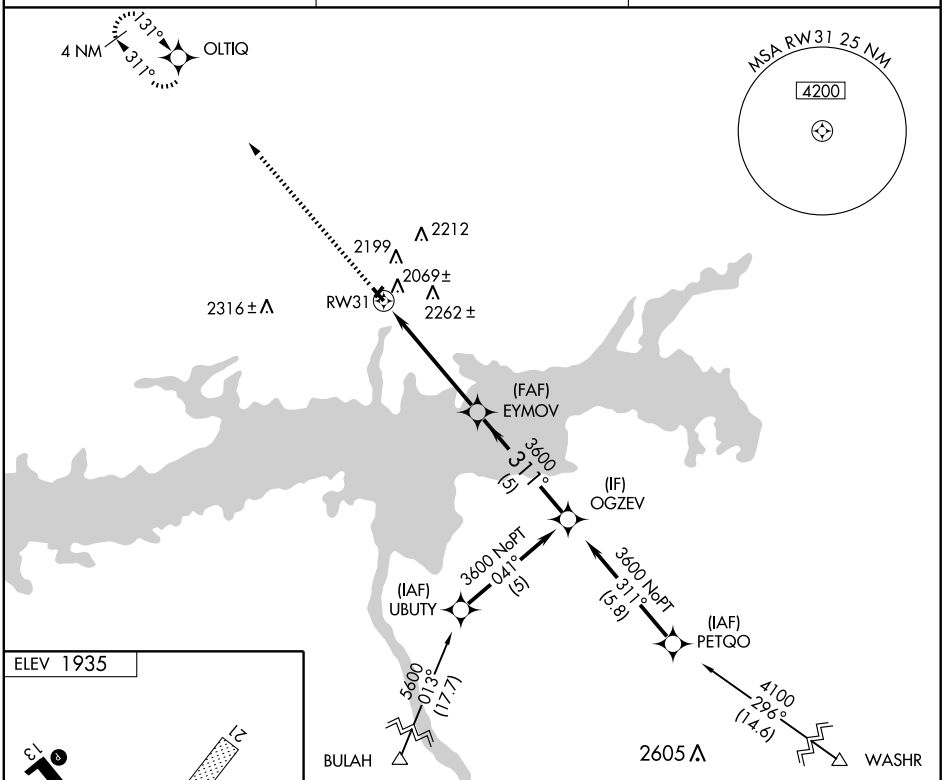
RNAV (GPS) RWY 31
GARRISON MUNI (D05)

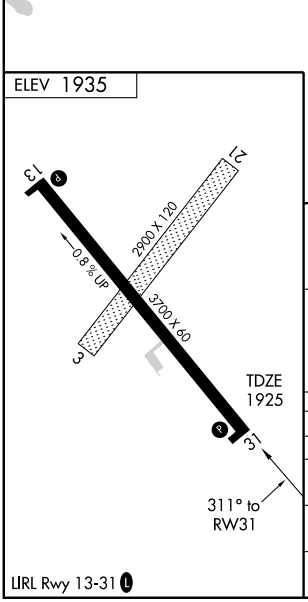
NA

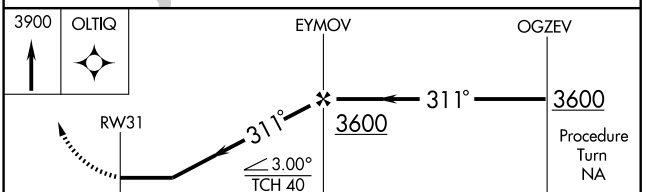
DME/DME RNP- 0.3 NA.
Use Minot Intl altimeter setting.

MISSED APPROACH: Climb to 3900 direct OLTIQ and hold.

MINOT ASOS	MINNEAPOLIS CENTER	CTAF
118.725	127.6 279.6	122.9 L







CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2560-1 635 (700-1)		NA	
CIRCLING	2680-1 745 (800-1)	2680-1¼ 745 (800-1¼)	NA	

LIRL Rwy 13-31 L

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GRAFTON

HUTSON FLD (GAF) 2 ESE UTC−6(−5DT) N48°24.28′ W97°22.26′

TWIN CITIES
L–14G
IAP

824 B **FUEL** 100LL, JET A NOTAM FILE GFK

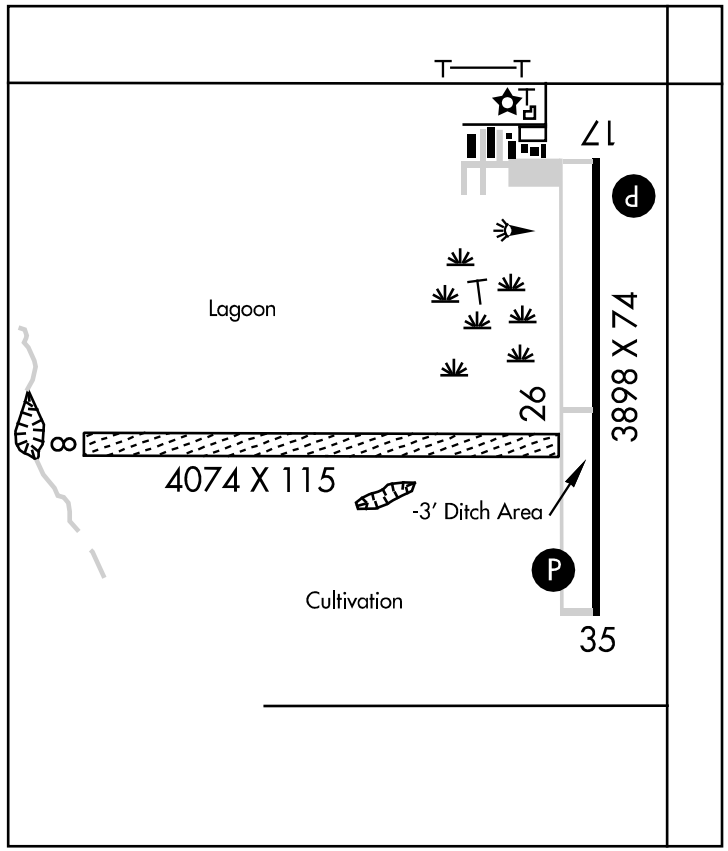
RWY 08–26: 4074X115 (TURF)

RWY 08: P-line. **RWY 26:** Road.

RWY 17–35: H3898X74 (ASPH–AFSC) S–12.5 MIRL

RWY 17: PAPI(P2L)—GA 3.0° TCH 25′. Road.

RWY 35: PAPI(P2L)—GA 3.0° TCH 25′. Road.



AIRPORT REMARKS: Attended May–Sep dalgt hrs, Oct–Apr Mon–Fri on call. 24 hr self svc fuel avbl with credit card only. For svc after hrs call 701–352–0271 or 701–520–9174. CAUTION 3′ ditch between E end of Rwy 08–26 and Rwy 17–35, use designated twys. Heavy aerial spray activity May–Oct. Numerous transient flight training activities. Rwy 08–26 turf surface soft when wet and rough due to sparse grass growth. Large birds and deer on and invof arpt. Rwy 08–26 CLOSED winter months due to lack of snow removal. Rwy 17–35 parallel twy marked with reflectors. Ponded water between Rwy 17–35 and parallel twy. Rwy 17–35 breaking action poor when wet. Confirm winter conditions and snow removal with arpt manager call 701–352–0271 or 701–520–9174. MIRL Rwy 17–35 and PAPI Rwy 17 and Rwy 35 preset on low ints dusk–0500Z‡, to increase ints after 0500Z‡ ACTIVATE—CTAF.

WEATHER DATA SOURCES: AWOS–3 118.625 (701) 352–0581.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ **GRAND FORKS APP/DEP CON** 118.1

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.

GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 336° 28.0 NM to fld. 841/9E.

HIWAS.

WAAS CH 53518 W17A	APP CRS 174°	Rwy ldg 3898 TDZE 822 Apt Elev 824

RNAV (GPS) RWY 17

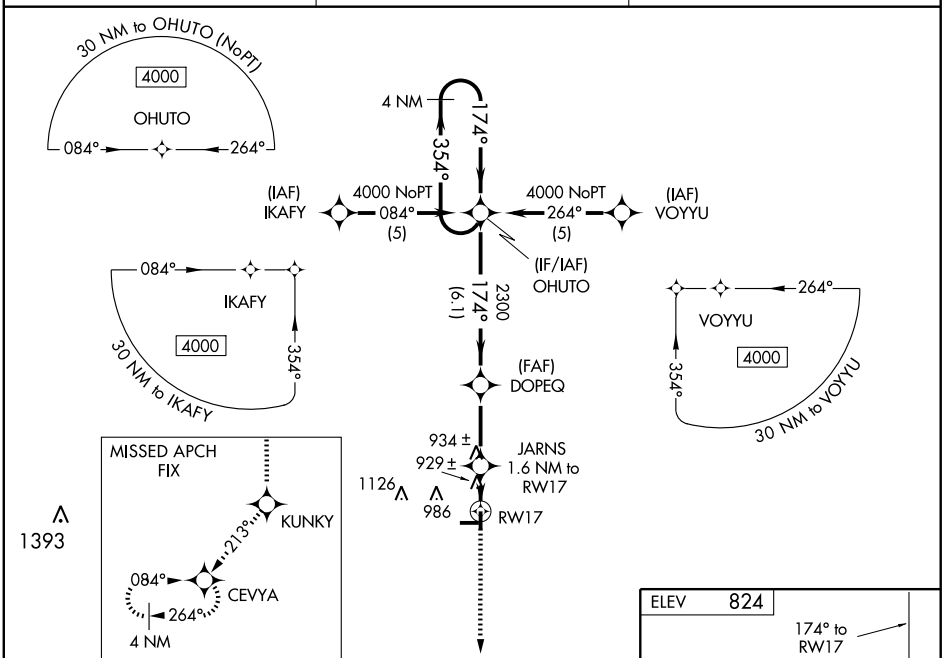
GRAFTON/ HUTSON FIELD (GAF)

NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Grand Forks Intl altimeter setting and increase all DA 69 feet and all MDA 80 feet. Increase LPV and LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using Grand Forks Intl altimeter setting.

MISSED APPROACH: Climb to 4000 direct KUNKY and on track 213° to CEVYA and hold, continue climb-in-hold to 4000.

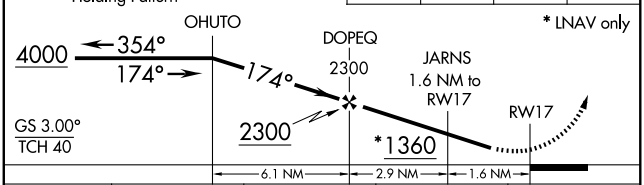
AWOS-3	GRAND FORKS APP CON	UNICOM
118.625	118.1 318.1	122.8 (CTAF) L



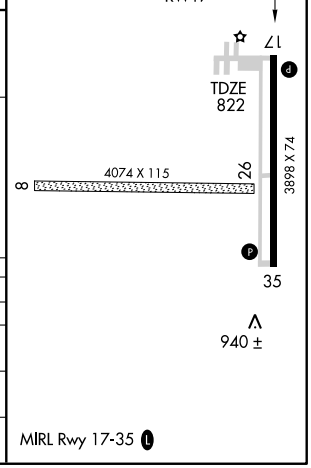
VGSI and RNAV glidepath not coincident.

4000	KUNKY	tr 213°	CEVYA

* LNAV only



CATEGORY	A	B	C	D
LPV DA	1072-1 250 (300-1)			NA
LNAV/VNAV DA	1228-1½ 406 (500-1½)			NA
LNAV MDA	1200-1 378 (400-1)			NA
CIRCLING	1340-1 516 (600-1)		1340-1½ 516 (600-1½)	NA



MIRL Rwy 17-35 L

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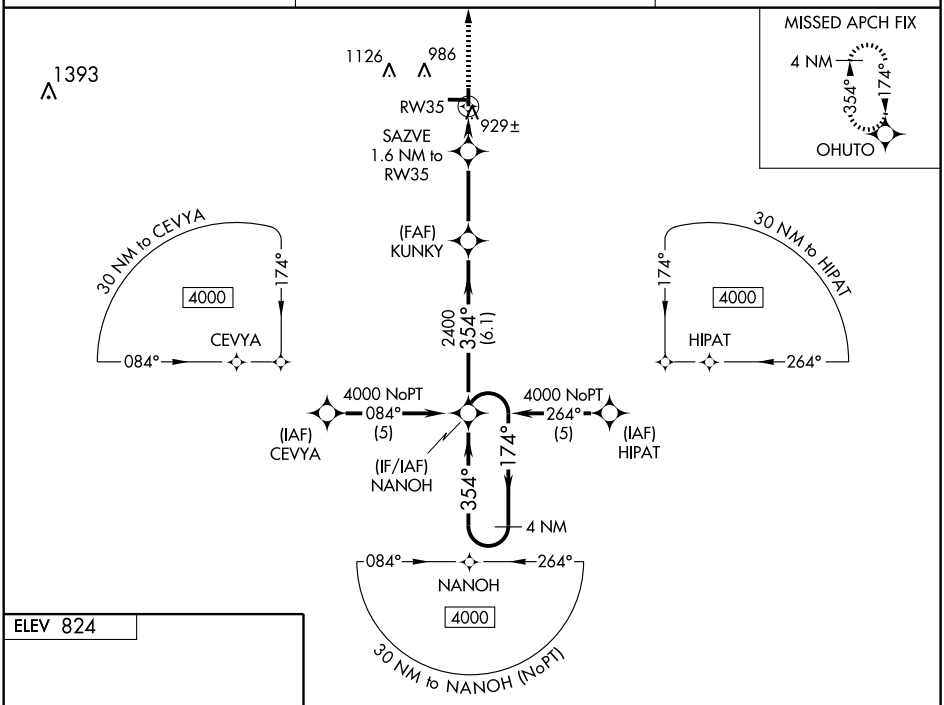
WAAS CH 82518 W35A	APP CRS 354°	Rwy ldg 3898 TDZE 822 Apt Elev 824

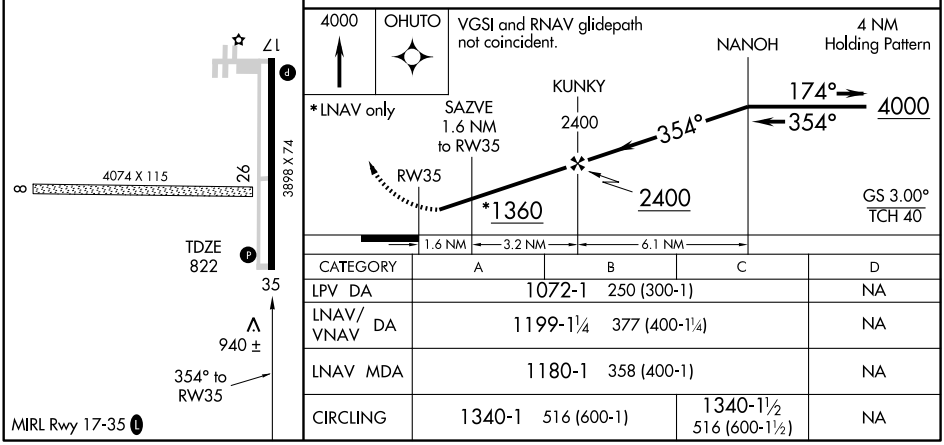
RNAV (GPS) RWY 35
GRAFTON/ HUTSON FIELD (GAF)

T NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Grand Forks Intl altimeter setting and increase all DA 69 ft and all MDA 80 ft. Increase LPV and LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using Grand Forks Intl altimeter setting.

MISSED APPROACH: Climb to 4000 direct OHUTO and hold, continue climb-in-hold to 4000.

AWOS-3	GRAND FORKS APP CON	UNICOM
118.625	118.1 318.1	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1072-1 250 (300-1)			NA
LNAV/VNAV DA	1199-1¼ 377 (400-1¼)			NA
LNAV MDA	1180-1 358 (400-1)			NA
CIRCLING	1340-1 516 (600-1)		1340-1½ 516 (600-1½)	NA

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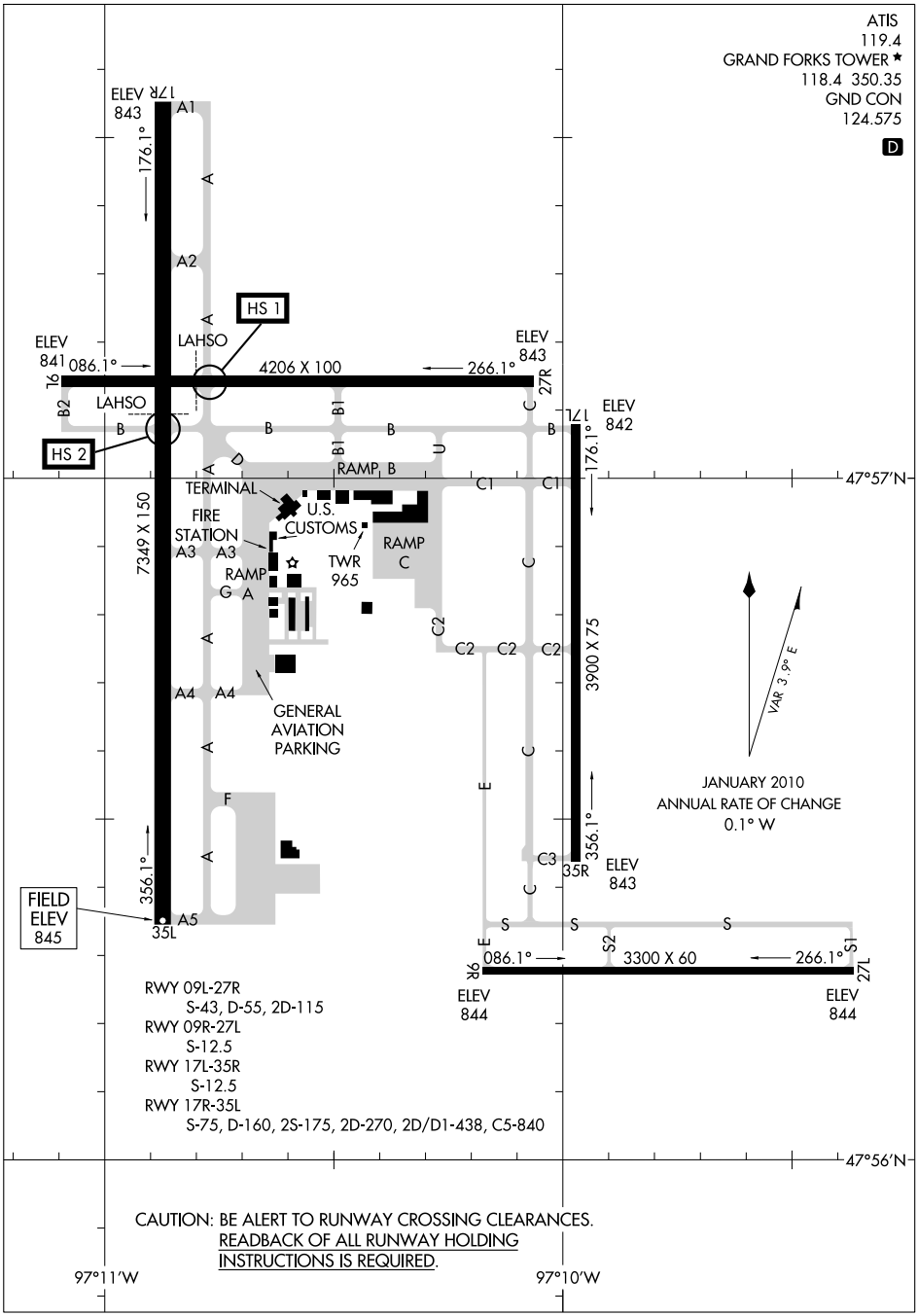
AIRPORT DIAGRAM

AL-5187 (FAA)

GRAND FORKS INTL (GFK)
GRAND FORKS, NORTH DAKOTA



NC-1, 21 OCT 2010 to 18 NOV 2010

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AIRPORT DIAGRAM
GRAND FORKS, NORTH DAKOTA
GRAND FORKS INTL (GFK)
10266

GRAND FORKS INTL (GFK) 5 NW UTC−6(−5DT) N47°56.84′ W97°10.43′

TWIN CITIES
H–2I, L–14G
IAP, AD

845 B S4 **FUEL** 100LL, JET A OX 3 TPA—See Remarks LRA Class I, ARFF Index B
NOTAM FILE GFK

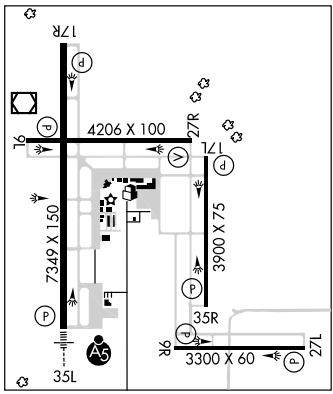
RWY 17R–35L: H7349X150 (ASPH–GRVD) S–75, D–160, 2S–175, 2D–270, 2D/2D1–438, C5–840 HIRL
RWY 17R: REIL. PAPI(P4L)—GA 3.0° TCH 53′. Rgt tfc.
RWY 35L: MALSR. PAPI(P4L)—GA 2.76° TCH 61′.
RWY 09L–27R: H4206X100 (CONC) S–43, D–55, 2D–115 MIRL
RWY 09L: PAPI(P4L)—GA 3.0° TCH 39′.
RWY 27R: REIL. VASI(V4L)—GA 3.0° TCH 45′. Rgt tfc.
RWY 17L–35R: H3900X75 (CONC) S–12.5 MIRL
RWY 17L: PAPI(P4L)—GA 3.0° TCH 21′.
RWY 35R: PAPI(P4L)—GA 3.0° TCH 21′. Rgt tfc.
RWY 09R–27L: H3300X60 (CONC) S–12.5 MIRL
RWY 09R: PAPI(P2L)—GA 3.0° TCH 21′. Rgt tfc.
RWY 27L: PAPI(P2L)—GA 3.0° TCH 21′.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 27R	17R–35L	3000
RWY 35L	09L–27R	4600

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09L: TORA–4206 TODA–4206 ASDA–4206 LDA–4206
RWY 27R: TORA–4206 TODA–4206 ASDA–4206 LDA–4206



AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. Heavy student training activity within 15 miles of airport. Heavy student helicopter training at arpt between parallel twys. PAEW 0530–1200Z‡. ARFF Index B svc avbl 1100–0600Z‡; other times PPR for air carrier operations with more than 30 passenger seats. Call arpt manager on 701–795–6984. When twr clsd snow removal equipment operators monitor CTAF. Customs avbl Mon–Fri 1900–0300Z‡, other times on req 701–772–3301. Lgtd entrance road 1600′ east of Rwy 17R–35L. Rwy 09R, Rwy 27L, Rwy 17L and Rwy 35R CLOSED when twr clsd. Rwy 9R, Rwy 27L, Rwy 17L, Rwy 35R, and Twy C, Twy E, and Twy S not avbl for air carrier with more than 30 passenger seats. Western most 100 ft of Twy C1 is an extension of the Bravo apron and not visible from the twr. Twy G and Twy U clsd to fixed wing acft 12,500 lbs and over. TPA 1645(800) for light aircraft and 2345(1500) for large aircraft. ACTIVATE REIL Rwy 27R and Rwy 17R—CTAF. When twr clsd ACTIVATE HIRL Rwy 17R–35L, and MALSR Rwy 35L, MIRL Rwy 09L–27R—CTAF. VASI Rwy 27R, PAPI Rwy 17R, Rwy 35L, Rwy 17L, Rwy 35R, Rwy 09R, Rwy 09L and Rwy 27L opr continuously. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (701) 772–3486. **HIWAS** 114.3 GFK.

COMMUNICATIONS: CTAF 118.4 **ATIS** 119.4 **UNICOM** 122.95
RCO 122.6 122.2 (GRAND FORKS RADIO)

Ⓡ **APP/DEP CON** 118.1
TOWER 118.4 120.55 (1200–0530Z‡) **GND CON** 124.575

AIRSPACE: CLASS D svc 1200–0530Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
(H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ at fld. 841/9E. **HIWAS.**
HISER NDB (LOM) 345 GF N47°50.78′ W97°10.89′ 356° 6.2NM to fld.
ILS/DME 109.1 I–GFK Chan 28 Rwy 35L. Class IC. LOM HISER NDB. ILS/DME unmonitored when twr clsd. LOC unusable byd 25° left and right of course.

COMM/NAV/WEATHER REMARKS: Freq 121.5 not available at twr. Weather available on ATIS when twr closed. CTC Grand Forks radio for arpt advisory svc on 118.4 when twr is clsd.

GRENORA CENTENNIAL (7N6) 1 NE UTC−7(−6DT) N48°37.53′ W103°55.80′

TWIN CITIES

2145 NOTAM FILE GFK
RWY 17–35: 2600X100 (TURF)
RWY 17: P–line.

AIRPORT REMARKS: Unattended. Arpt CLOSED winter months. No snow removal, confirm rwy condition phone 701–694–3391. Rwy 17–35 violates 5′ rwy visibility clearance. −5′ pond 50′ from Rwy 17 thld. Rwy 17–35 dalgt markers on four corners and edges with black/white cones.

COMMUNICATIONS: CTAF 122.9

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
DULUTH, MN		
DULUTH INTL (DLH)	HS 1	Rwy 27 apch area.
	HS 2	Apch end of Rwy 27 located at Twy A5.
	HS 3	Rwy 21 via Twy A and Twy C complex int.
GRAND FORKS, ND		
GRAND FORKS INTL (GFK)	HS 1	Rwy 09L and Twy A int.
	HS 2	Rwy 17R and Twy B int.
MINNEAPOLIS, MN		
CRYSTAL (MIC)	HS 1	Short distance between rwys.
	HS 2	Short distance between rwys.
	HS 3	Short distance between rwys.
	HS 4	Int of Rwy 06R (sod) on Twy F.
	HS 5	Int of Rwy 24L (sod) on Twy D.
	HS 6	Multiple vehicle/pedestrian deviations occurrence.
	HS 7	Close proximity of Rwy 14R and Rwy 06R.
	HS 8	Rwy 24R proximity to Twy E and Twy B int.
MINNEAPOLIS, MN		
FLYING CLOUD (FCM)	HS 1	Hold position markings/sign proximity to Twy A.
	HS 2	Hold position markings/sign proximity to Twy A.
	HS 3	Hold position markings/sign proximity to Twy A.
	HS 4	Hold position markings/sign proximity to Twy A.
	HS 5	Hold position markings/sign proximity to Twy A.
	HS 6	Hold position markings/sign proximity to Twy A.
	HS 7	Hold position markings/sign proximity to Twy A.
	HS 8	Hold position markings/sign proximity to Twy A.
	HS 9	Rwy 18 apch area along Twy A.
	HS 10	Proximty of parallel rwys and holding positions.
	HS 11	Short distance between rwy hold short lines.
MINNEAPOLIS, MN		
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN (MSP)	HS 1	Complex int of Twy A, Twy B, Twy C, Twy D, and Twy H in near proximity to Rwy 12R-30L and Rwy 04-22.
	HS 2	Complex twy/rwy geometry.
	HS 3	Complex int of Twy C, Twy D, Twy P, and Twy Q in near proximity to Rwy 12L-30R and Rwy 04-22.
	HS 4	Complex geometry at Rwy 04 apch end.
SIOUX FALLS, SD		
JOE FOSS FIELD (FSD)	HS 1	Complex twy int in close proximity of rwys.

*See appropriate A/FD, Alaska or Pacific Supplement HOT SPOT table for additional information.

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LOC/DME I-GFK	APP CRS	Rwy ldg	7349
109.1	354°	TDZE	845
Chan 28		Apt Elev	845

ILS or LOC RWY 35L
GRAND FORKS INTL (GFK)

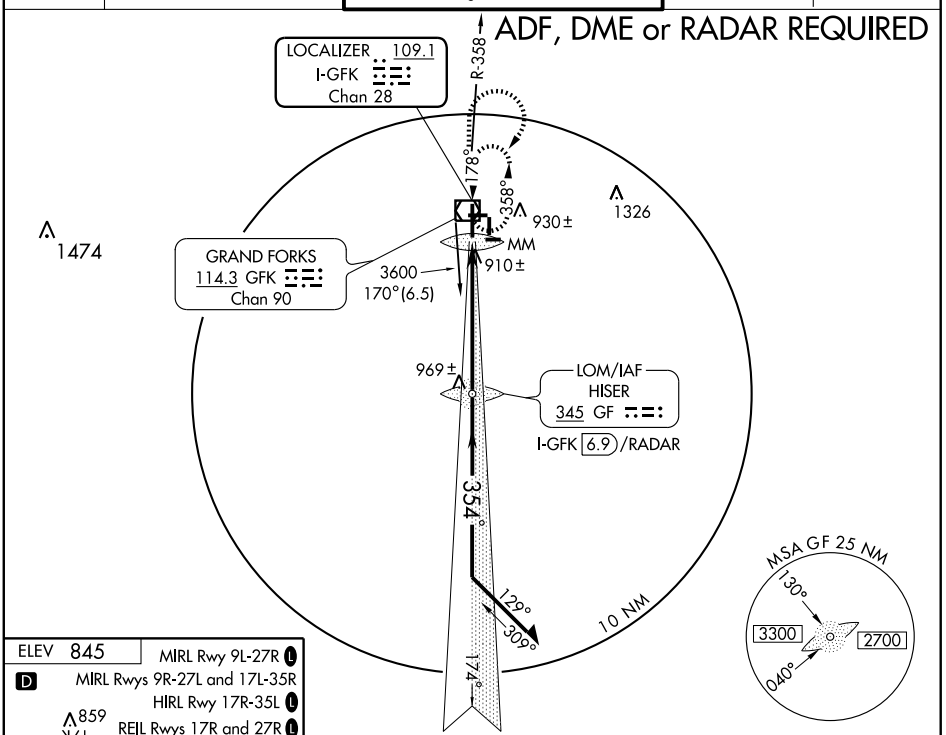
If local altimeter setting not received, use Crookston altimeter setting and increase all DAs/MDAs 80 feet. Procedure turn NA for Cat. E aircraft. VDP NA with Crookston altimeter setting.
For inoperative MALSR, increase S-ILS Cat. E visibility to 1.

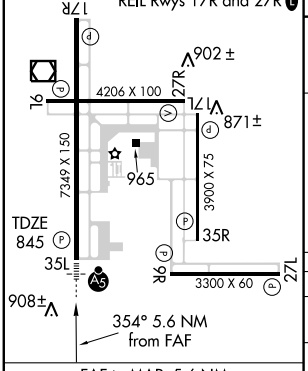
MALSR A5

MISSED APPROACH:
Climb to 3600 then right turn direct GFK VOR/DME and hold.

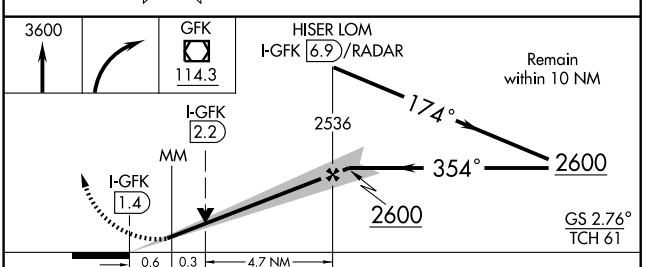
ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER ★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95

ADF, DME or RADAR REQUIRED





FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52



CATEGORY	A	B	C	D	E
S-ILS 35L	1045-½ 200 (200-½)				
S-LOC 35L	1160- ½ 315 (400-½)			1160- ¾ 315 (400-¾)	
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1¼ 455 (500-1¼)	1400-2 555 (600-2)	1520-2½ 675 (700-2½)

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LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

CITY/AIRPORT	LDG RWY	HOLD-SHORT POINT	MEASURED DISTANCE
DULUTH, MN			
DULUTH INTL (DLH)	09	03-21	8,950 feet
GRAND FORKS, ND			
GRAND FORKS INTL (GFK)	27R	17R-35L	3,000 feet
	35L	09L-27R	4,600 feet
MINNEAPOLIS, MN			
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN (MSP)	22	TWY K	8,550 feet
	30L	TWY A9 TWY W9	8,150 feet
ROCHESTER, MN			
ROCHESTER INTL (RST)	02	13-31	5,850 feet
	13	02-20	5,270 feet
	31	02-20	3,200 feet

21 OCT 2010 to 18 NOV 2010

21 OCT 2010 to 18 NOV 2010

LOC/DME I-GFK 109.1 Chan 28	APP CRS 174°	Rwy ldg 7349 TDZE 843 Apt Elev 845

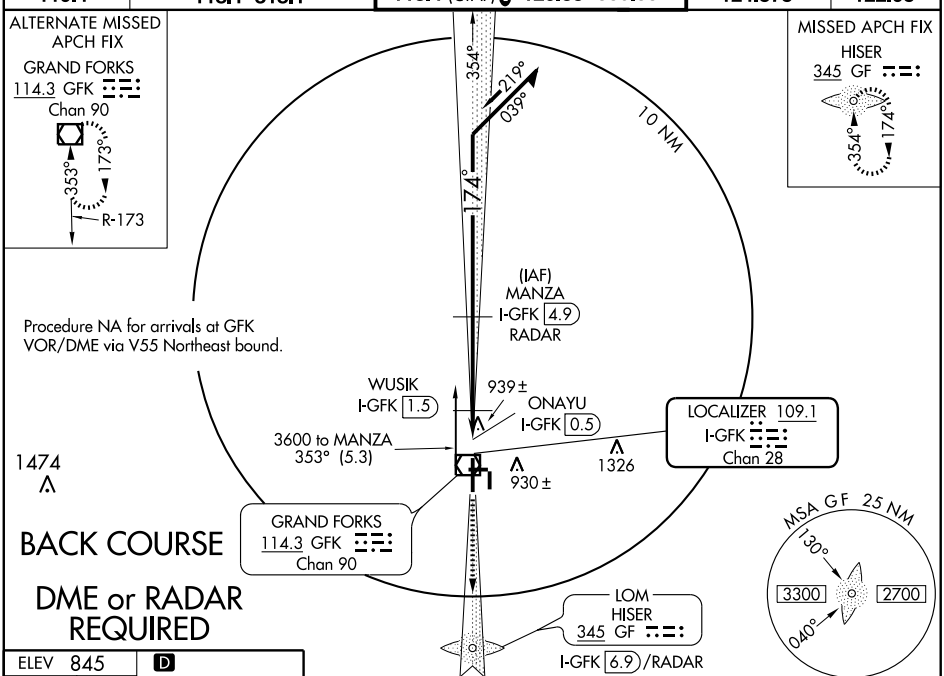
10154

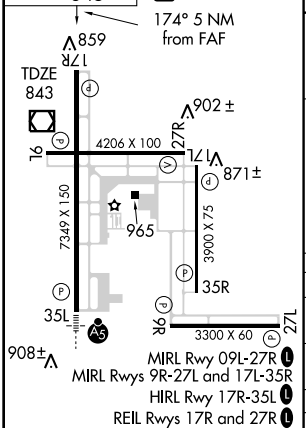
LOC BC RWY 17R
GRAND FORKS INTL (GFK)

Visibility reduction by helicopters NA. DME or RADAR or ADF required. When local altimeter setting not received, use Crookston altimeter setting and increase all MDA 80 feet, increase S-17R Cats C/D visibility and WUSIK fix minimums S-17R Cats C/D visibility ¼ mile.

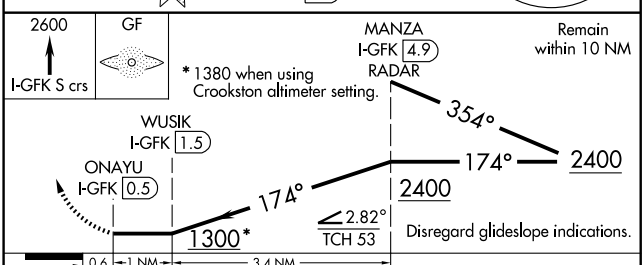
MISSED APPROACH: Climb to 2600 via I-GFK south course to HISER LOM /I-GFK 6.9 DME/RADAR and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER ★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95





FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28



CATEGORY	A	B	C	D
S-17R	1300-1 457 (500-1)		1300-1¼ 457 (500-1¼)	1300-1½ 457 (500-1½)
CIRCLING	1300-1 455 (500-1)		1300-1½ 455 (500-1½)	1400-2 555 (600-2)
WUSIK FIX MINIMUMS				
S-17R	1200-1 357 (400-1)			1200-1¼ 357 (400-1¼)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

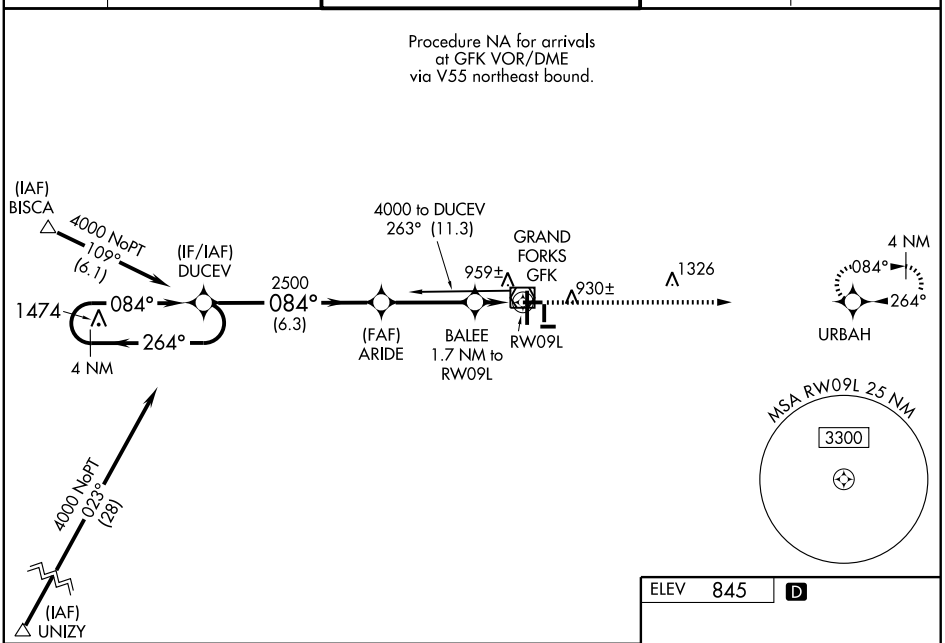
WAAS CH 58104 W09A	APP CRS 084°	Rwy ldg 4206 TDZE 843 Apt Elev 845

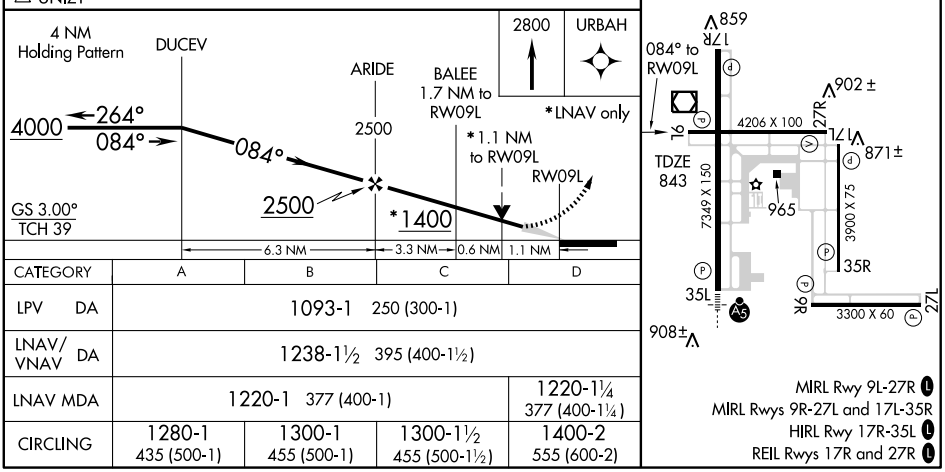
RNAV (GPS) RWY 9L
GRAND FORKS INTL (GFK)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP- 0.3 NA.
When local altimeter setting not received, use Crookston altimeter setting and increase all DA 62 feet and all MDA 80 feet, increase LNAV/VNAV all Cats and LNAV Cat C/D visibilities¾ mile.
Baro-VNAV and VDP NA when using Crookston altimeter setting.

MISSED APPROACH: Climb to 2800 direct URBAH and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95





CATEGORY	A	B	C	D
LPV DA	1093-1 250 (300-1)			
LNAV/VNAV DA	1238-1½ 395 (400-1½)			
LNAV MDA	1220-1 377 (400-1)			1220-1¼ 377 (400-1¼)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 63199 W17A	APP CRS 174°	Rwy ldg 7349 TDZE 843 Apt Elev 845

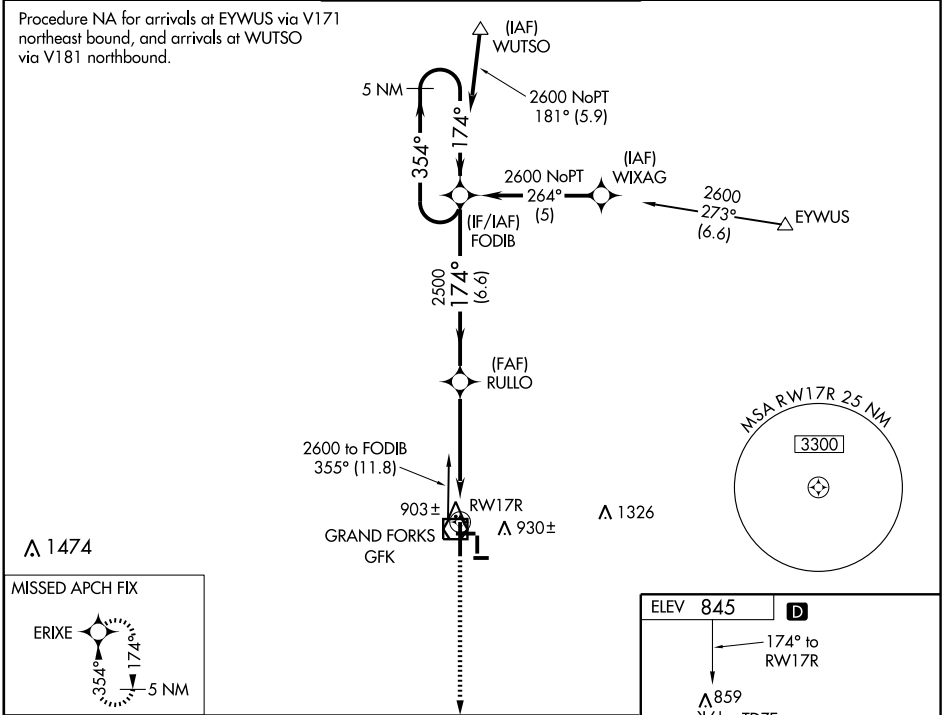
RNAV (GPS) RWY 17R
GRAND FORKS INTL (GFK)

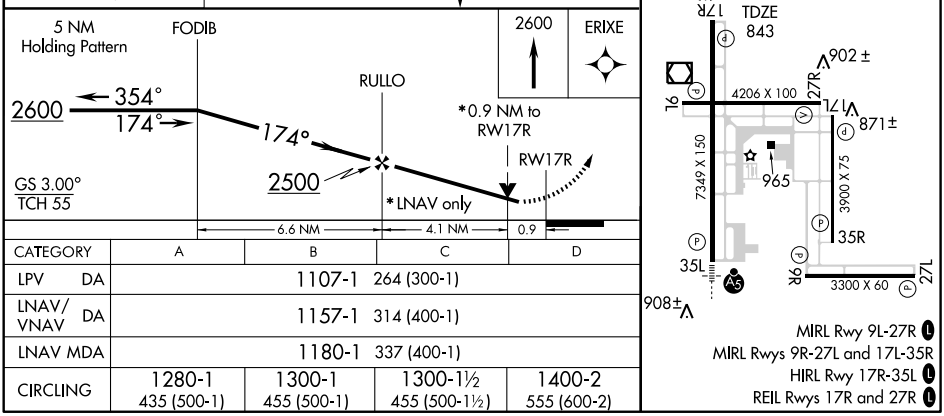
DME/DME RNP -0.3 NA. When local altimeter setting not received, use Crookston altimeter setting and increase all DA/MDA 80 feet and increase LPV and LNAV/VNAV all Cats visibility ¼ mile and LNAV Cats C and D visibility ¼ mile. Baro-VNAV NA with Crookston altimeter setting. VDP NA with Crookston altimeter setting. Baro-VNAV NA below -16°C (5°F).

MISSED APPROACH: Climb to 2600 direct ERIXE and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER*	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95

Procedure NA for arrivals at EYWUS via V171 northeast bound, and arrivals at WUTSO via V181 northbound.





CATEGORY	A	B	C	D
LPV DA	1107-1 264 (300-1)			
LNAV/VNAV DA	1157-1 314 (400-1)			
LNAV MDA	1180-1 337 (400-1)			
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

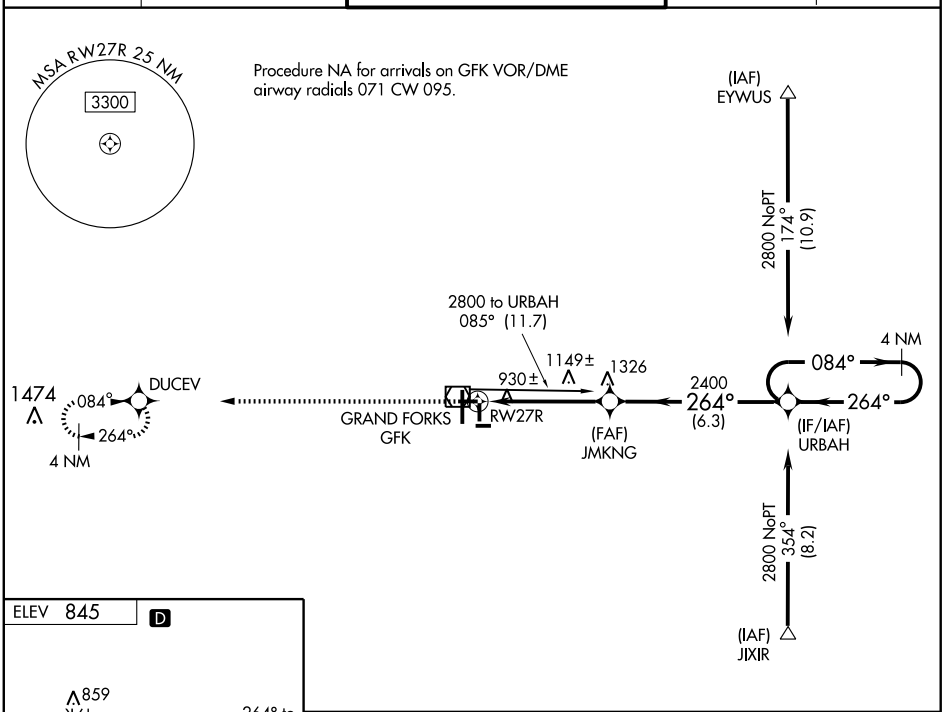
WAAS CH 78104 W27A	APP CRS 264°	Rwy ldg 4206 TDZE 843 Apt Elev 845

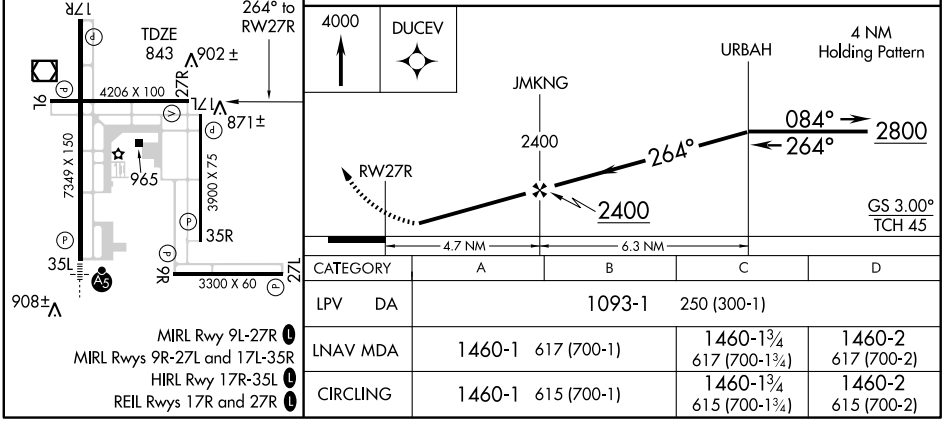
RNAV (GPS) RWY 27R
GRAND FORKS INTL (GFK)

DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Crookston altimeter setting and increase all DA 62 feet and all MDA 80 feet.
Increase LNAV and Circling Cat C and D visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct DUCEV and hold, continue climb-in-hold to 4000.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER ★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) (L) 120.55 350.35	124.575	122.95





CATEGORY	A	B	C	D
LPV DA	1093-1 250 (300-1)			
LNAV MDA	1460-1 617 (700-1)		1460-1¾ 617 (700-1¾)	1460-2 617 (700-2)
CIRCLING	1460-1 615 (700-1)		1460-1¾ 615 (700-1¾)	1460-2 615 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 70313 W35A	APP CRS 354°	Rwy ldg 7349 TDZE 845 Apt Elev 845

RNAV (GPS) RWY 35L
GRAND FORKS INTL (GFK)

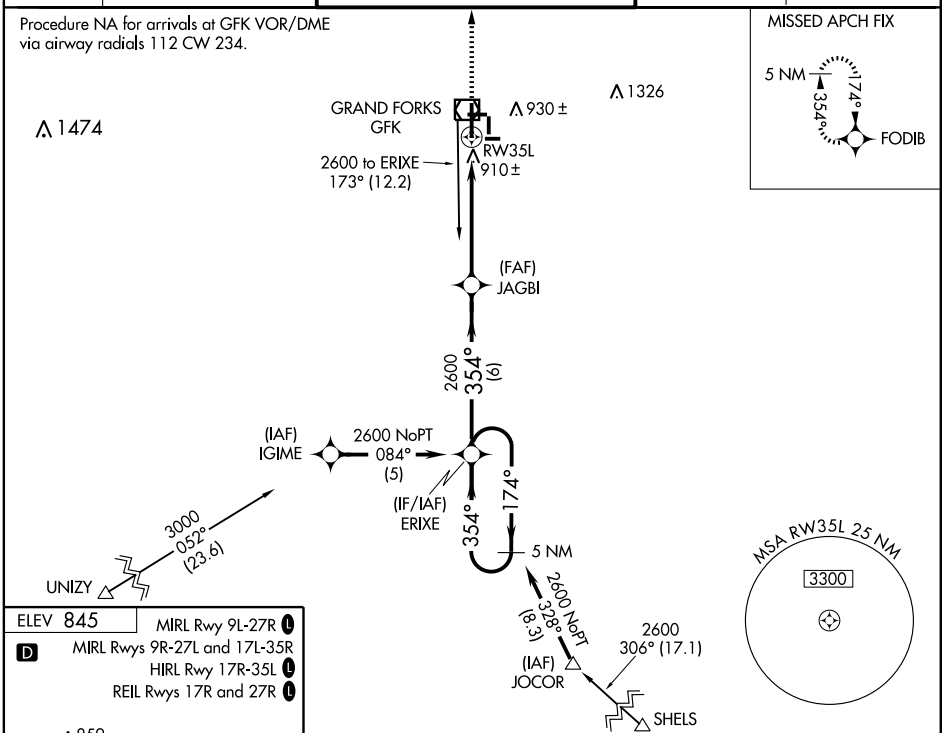
DME/DME RNP -0.3 NA. Inoperative table does not apply to LNAV Cat D.
If local altimeter setting not received, use Crookston altimeter setting and increase alll DAs/MDAs 80 feet.
VDP NA when using Crookston altimeter setting. Baro-VNAV NA below -16°C (4°F).
Baro-VNAV NA when using Crookston altimeter setting.
For inoperative MALSR increase LPV all Cats visibility to 1.

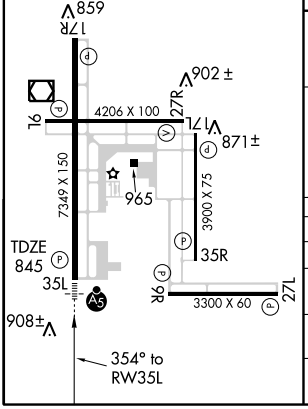
MALSR

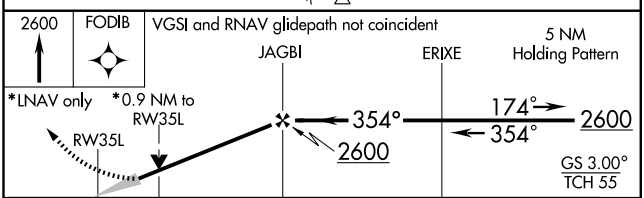
MISSED APPROACH: Climb to 2600 direct FODIB and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER*	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95

Procedure NA for arrivals at GFK VOR/DME via airway radials 112 CW 234.







CATEGORY	A	B	C	D
LPV DA	1095-½ 250 (300-½)			
LNAV/VNAV DA	1174-½ 329 (400-½)			1174-¾ 329 (400-¾)
LNAV MDA	1180-½ 335 (400-½)			1180-1 335 (400-1)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)

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NC-1, 21 OCT 2010 to 18 NOV 2010

VOR/DME GFK	APP CRS	Rwy ldg	7349
114.3	183°	TDZE	843
Chan 90		Apt Elev	845

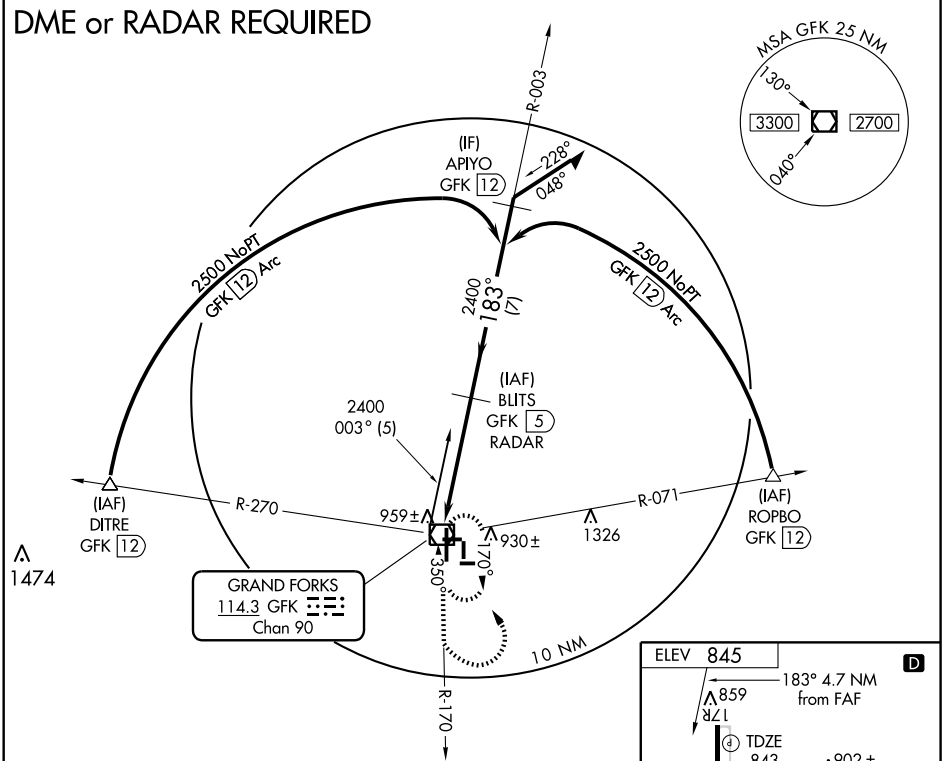
VOR RWY 17R
GRAND FORKS INTL (GFK)

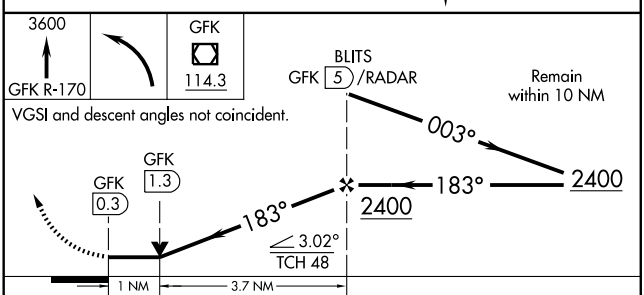
If local altimeter setting not received, use Crookston altimeter setting and increase all MDAs 80 feet.
VDP NA with Crookston altimeter setting.

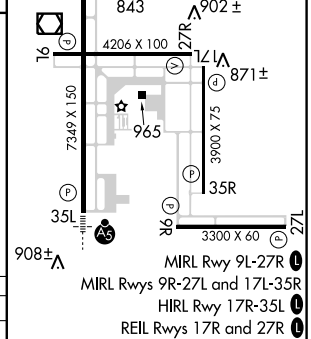
MISSED APPROACH: Climb to 3600 via GFK R-170 then left turn direct GFK VOR/DME and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER*	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95

DME or RADAR REQUIRED







CATEGORY	A	B	C	D
S-17R	1220-1 377 (400-1)			1220-1¼ 377 (400-1¼)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VOR/DME GFK	APP CRS	Rwy ldg	7349
114.3	344°	TDZE	845
Chan 90		Apt Elev	845

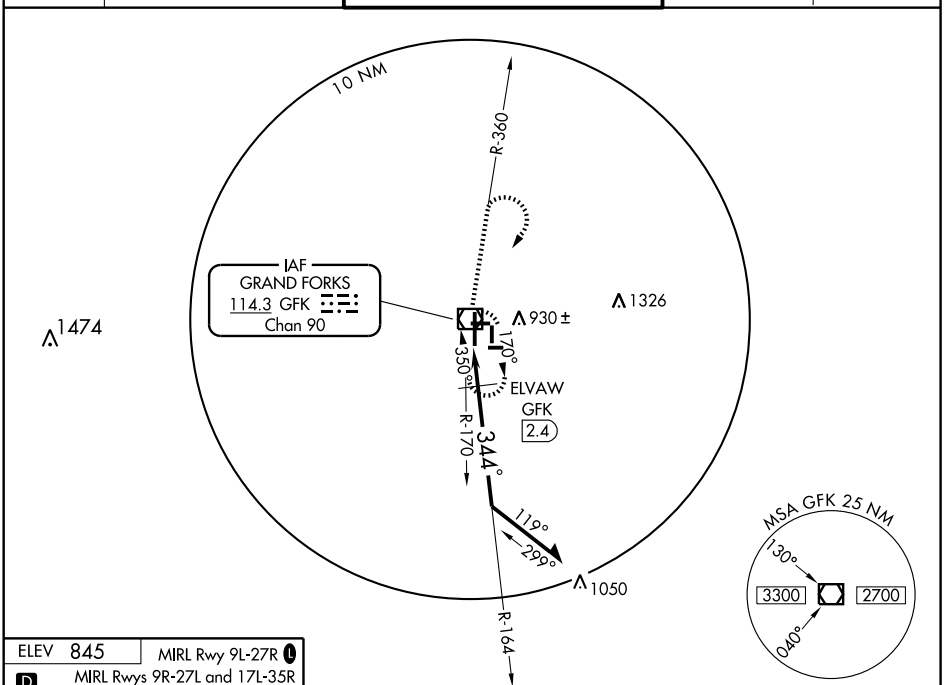
VOR RWY 35L
GRAND FORKS INTL (GFK)

If local altimeter setting not received use Crookston altimeter setting and increase, all MDAs 80 feet.
ELVAW FIX MINIMUMS: For inoperative MALSR, increase S-35L, Cat D visibility to 1¼ mile.

MALSR

MISSED APPROACH: Climb to 1300 then climb to 3600 via GFK R-360 then right turn direct GFK VOR/DME and hold.

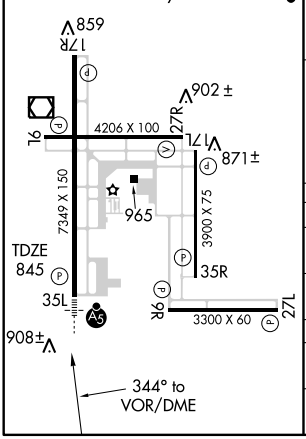
ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER ★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) L 120.55 350.35	124.575	122.95

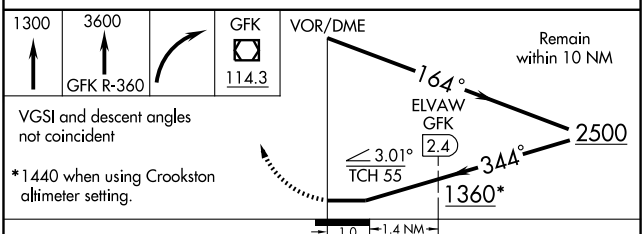


ELEV 845

D

MIRL Rwy 9L-27R L
MIRL Rwys 9R-27L and 17L-35R
HIRL Rwy 17R-35L L
REIL Rwys 17R and 27R L





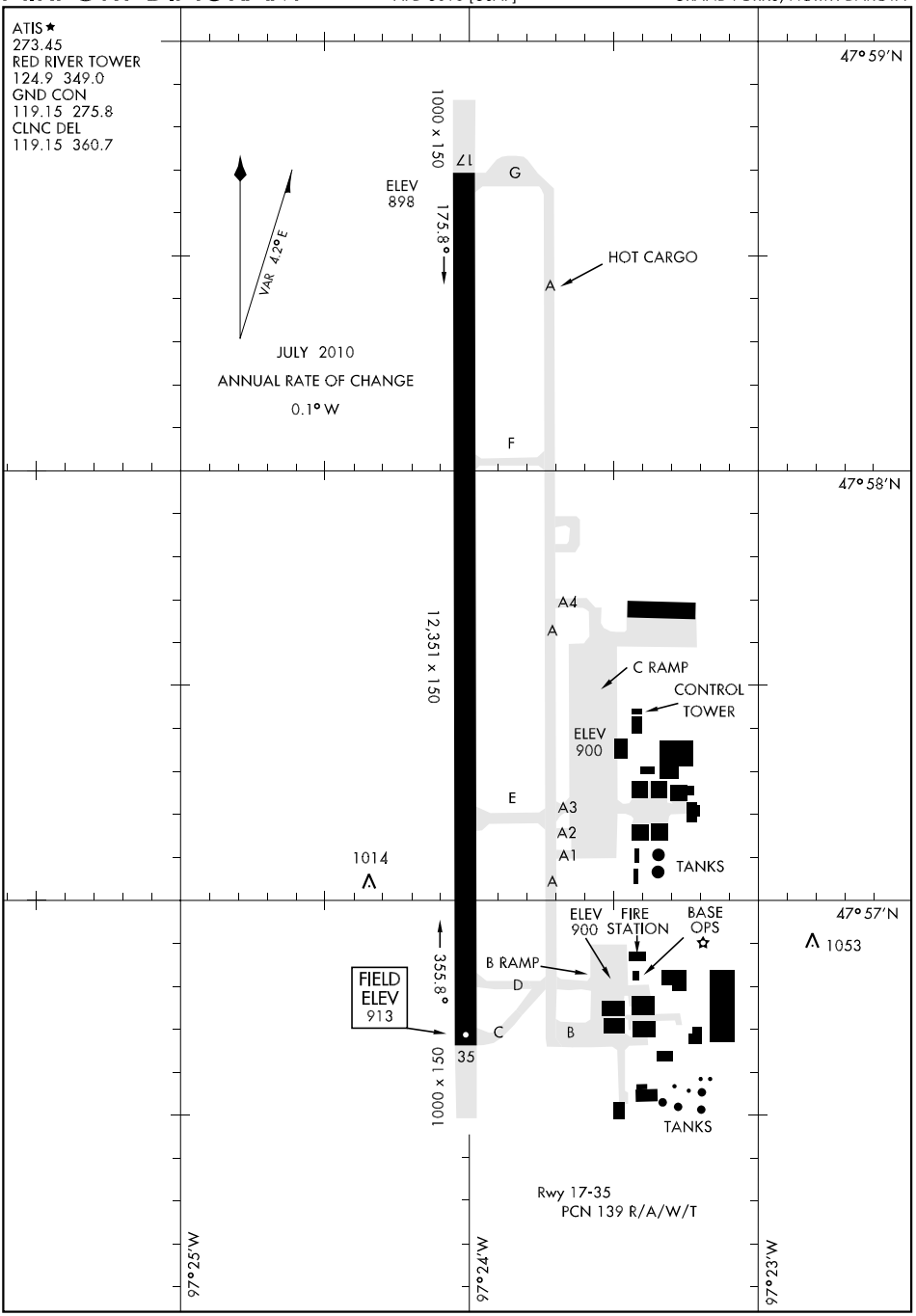
VGSI and descent angles not coincident

*1440 when using Crookston altimeter setting.

CATEGORY	A	B	C	D
S-35L	1360-½ 515 (600-½)		1360-1 515 (600-1)	1360-1¼ 515 (600-1¼)
CIRCLING	1360-1 515 (600-1)		1360-1½ 515 (600-1½)	1400-2 555 (600-2)
ELVAW FIX MINIMUMS				
S-35L	1220-½ 375 (400-½)			1220-1 375 (400-1)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1¼ 455 (500-1¼)	1400-2 555 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010



NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

GRAND FORKS AFB (RDR)(KRDR) AF 13 W UTC−6(−5DT) N47°57.68′ W97°24.05′ **TWIN CITIES**
913 B TPA—See Remarks NOTAM FILE GFK Not insp. **H–2I, L–14G**
RWY 17–35: H12350X150 (ASPH) PCN 139 R/A/W/T HIRL **DIAP, AD**
RWY 17: ALSF1. PAPI(P4L)—GA 2.6°. Rgt tfc. **RWY 35:** ALSF1. PAPI(P4L)—GA 2.6°.
MILITARY SERVICE: JASU (AM32A–86) (AM32–95) **FUEL** J8 **FLUID** SP PRESAIR LHOX **OIL** Oil avbl in package product only, hand transfer rqr. O–133–148 **TRAN ALERT** Opr Sat, Sun and holidays 1200–0400Z‡, 1400–2200Z‡. Svc avbl 24 hr with prior notification. No fuel svc will begin after 0415Z‡ weekday.
MILITARY REMARKS: Opr 1200–0500Z‡, PPR clsd Sat–Sun and holidays. After hr request must have approval of 319 OG/CC. **RSTD** All inbound passenger/cargo acft must ctc Comd Post no later than 30 min prior to ldg. Acft with dangerous materials ctc PTD 30 min prior to ETA. All acft ops except civilian air carriers are subject to restrictions and potential delays during BASH Phase II, Sep thru Nov, Mar thru May and other times as determined by the current Bird Watch condition (BWC). BWC MODERATE procedures are in effect during the Phase II BASH windows (1 hr prior to 1 hr after sunrise and 1 hr prior to 1 hr after sunset). When the BWC is moderate or greater. No IFR/VFR tfc pattern activity is permitted and any tkfs or ldgs rqr OG/CC approval. Airborne acft will ctc twr or afld OPS for the current BWC and OG/CC thru command post (Nordic control 311.0) during periods of BWC MODERATE for waiver authority in order to tkf or land. Transient aircrews who remain overnight, fax crew orders to Command Post DSN 362–6894 prior to arrival. North exit of Charlie ramp rstd to acft with wingspans of 195′ or less. Horseshoe clsd. Require 3 hr callout if customs is required. **CAUTION** Uncontrolled vehicle tfc on twy and ramps. UAV ops within 11 DME half circle RDR R–180 thru RDR R–360 W of Grand Forks AFB, sfc to FL180. **TFC PAT** TPA–Overhead 2400(1487), rectangular 1900(987). VFR overhead and rectangular tfc pattern rgt hand Rwy 17. Transient VFR acft inbound to the overhead pattern proceed to initial at or abv 3200′.
MISC First/last 1,100′ of Rwy 17–35 is concrete. Middle 10,150′ of Rwy 17–35 is asphalt. Acft with VHF radio equipment only may ctc Base OPS thru ATC. No hangar space. Base OPS DSN 362–4409, C701–747–4409. All acft with Distinguished Visitors on board ctc Comn Post 60 NM prior ldg. Twy and ramps have significant foreign object damage potential. Weather info avbl ctc DSN 362–4396. Acft remaining overnight ctc Comd Post 24 hrs prior notice DSN 362–6871, for billeting. Wx svc avbl Mon–Fri 1200–0500Z‡, clsd Sat–Sun. Combat Weather Flight DSN 362–4396, C701–747–4396. Building obstruction may impact prevailing visibility 010°–220°. ATC will enhance surface observation when twr visibility is less than 4 SM and different than reported visibility. During evacuation of combat weather squadron ctc 15 Operational Weather Flight at number below. Remote briefing svc avbl from 15 Operational Weather Squadron, Scott AFB DSN 576–9755, C618–256–9755.
COMMUNICATIONS: SFA **D–ATIS** 273.45 **PTD** 372.2
RCO 122.2 122.6 255.4 (GRAND FORKS RADIO)
Ⓡ **APP/DEP CON** 118.1 318.1
RED RIVER TOWER 124.9 349.0 (Mon–Fri 1200–0500Z‡, clsd Sat, Sun and hol.) **GND CON** 119.15 275.8 **CLNC DEL** 119.15 360.7
COMD POST 311.0 321.0 **PMSV METRO** 343.5
AIRSPACE: CLASS D svc Mon–Fri 1200–0500Z‡ clsd Sat, Sun and holidays.
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 264° 8.7 NM to fld. 841/9E. **HIWAS**
RED RIVER (H) TACAN Chan 111 RDR (116.4) N47°57.43′ W97°24.35′ at fld. 951/6E. No NOTAM MP Fri 1200–1500Z‡.
ILS 111.3 I–AVA Rwy 17. No NOTAM MP Mon–Tue 1300–1530Z‡.
ILS 109.9 I–RDR Rwy 35. Class IE. No NOTAM MP Mon–Tue 1300–1530Z‡.
ASR No Notam MP Mon–Fri 1000–1200Z‡.

HI-ILS or LOC RWY 17

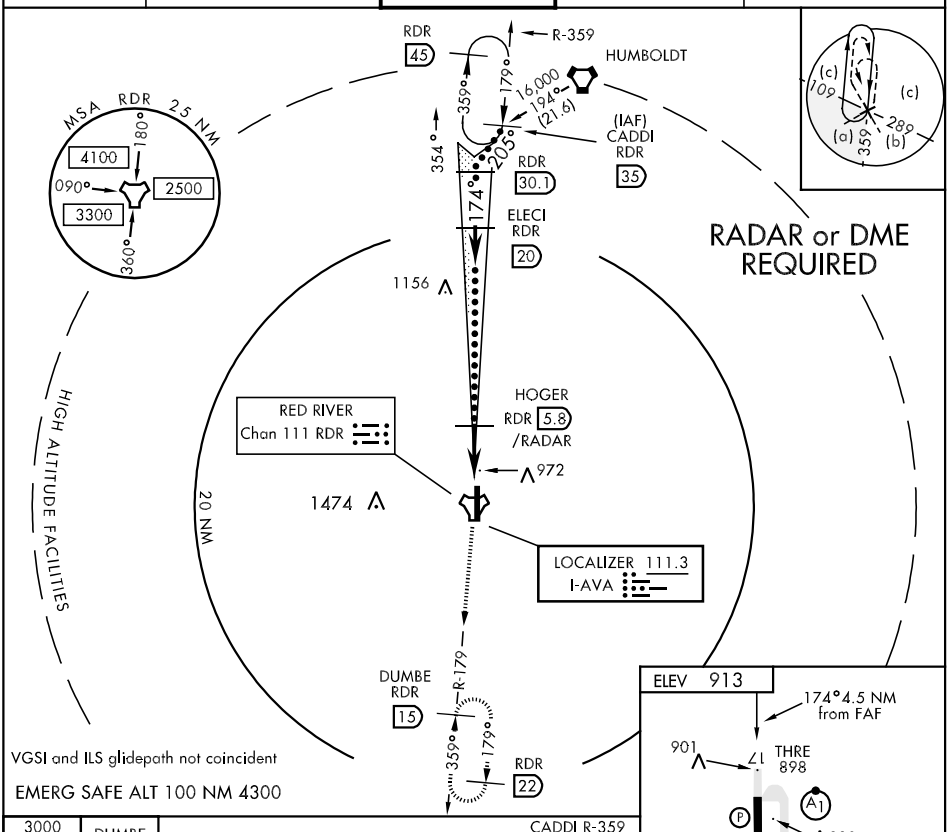
LOC I-AVA	APCH CRS	Rwy ldg / THRE / Arpt Elev	JAL-5010 [USAF]	GRAND FORKS AFB (KRDR)
111.3	174°	12,351 / 898 / 913		

* When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT CDE RVR to 55 and vis to 1 mile.
*** Circling E of Rwy 17-35 not authorized.

ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-179 to DUMBE and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7



CATEGORY	C	D	E
S-ILS 17 *	1102/24 204 (200-½)		
S-LOC 17 **	1240/30 342 (400-⅝)		
CIRCLING ***	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

FAF to MAP 4.0 NM					
Knots	120	140	160	180	200
Min:Sec	2:00	1:43	1:30	1:20	1:12

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HI-ILS or LOC RWY 35

LOC I-RDR	APCH CRS	Rwy ldg / THRE / Arpt Elev
109.9	354°	12,351 / 913 / 913

JAL-5010 [USAF]

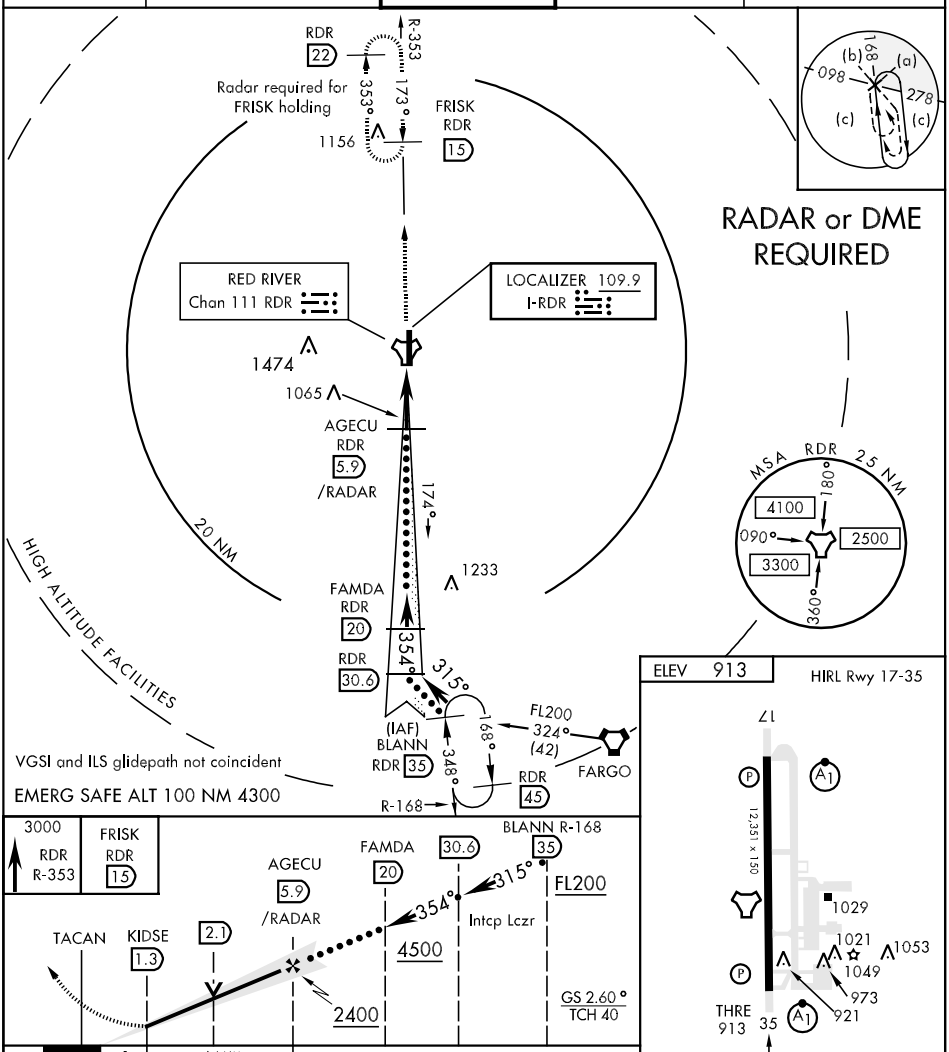
GRAND FORKS AFB (KRDR)

* When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT CDE RVR to 60 and vis to 1⅛ miles.
*** Circling E of Rwy 17-35 not authorized.

ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7



CATEGORY	C	D	E
S-ILS 35 *	1113/24 200 (200-½)		
S-LOC 35**	1320/40 407 (500-¾)		
CIRCLING***	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

FAF to MAP 4.6 NM

Knots	120	140	160	180	200
Min:Sec	2:18	1:58	1:43	1:32	1:23

NC-1, 21 OCT 2010 to 18 NOV 2010

HI-TACAN RWY 17

TACAN RDR Chan **111**	APCH CRS **179°**	Rwy ldg **12,351** THRE **898** Arpt Elev **913**

JAL-5010 [USAF]

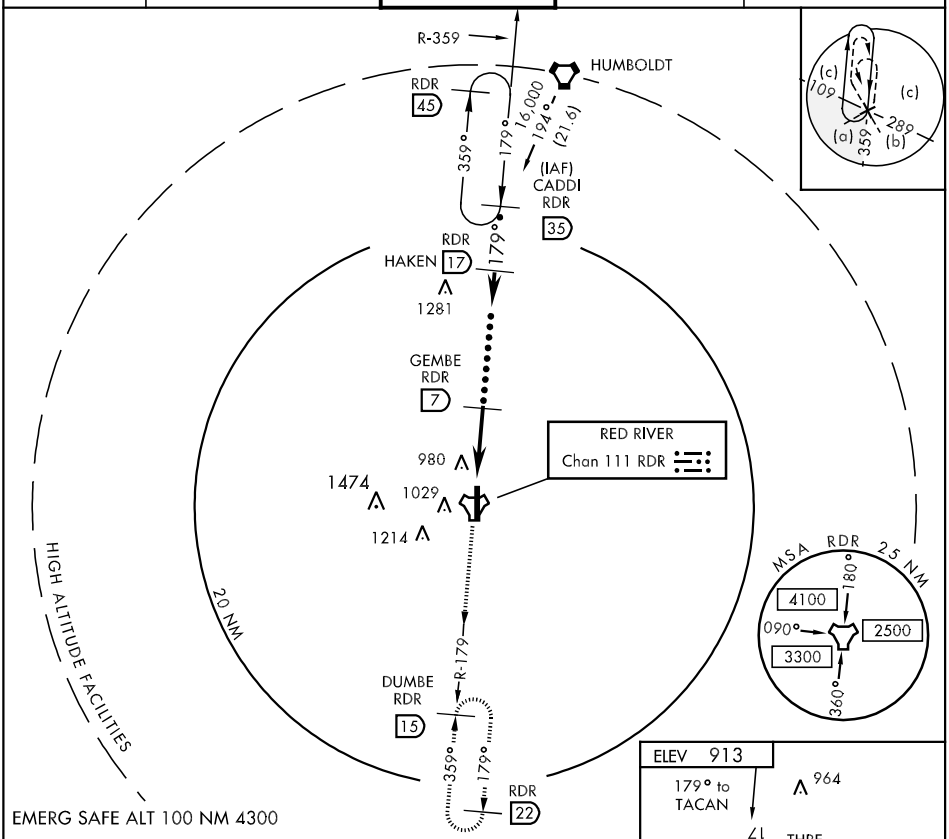
GRAND FORKS AFB (KRDR)

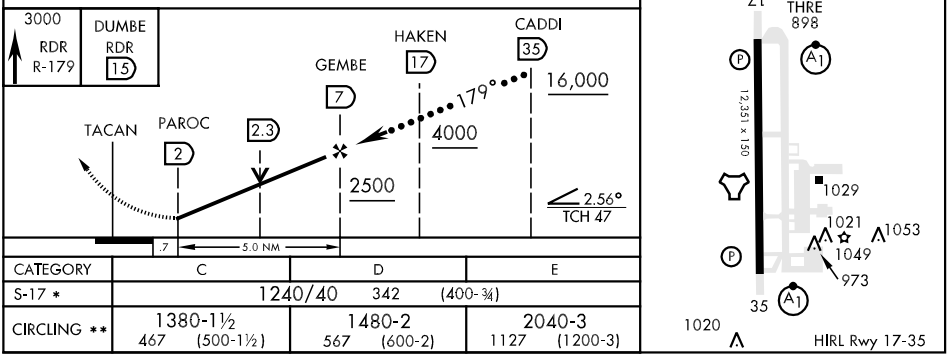
* When ALS inop, increase CAT CDE RVR to 55 and vis to 1 mile.
** Circling E of Rwy 17-35 not authorized.

ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-179 to DUMBE and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	**118.1 318.1**	**124.9 349.0**	**119.15 275.8**	**119.15 360.7**





CATEGORY	C	D	E
S-17 *	1240/40 342 (400-¾)		
CIRCLING **	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

NC-1, 21 OCT 2010 to 18 NOV 2010

GRAND FORKS, NORTH DAKOTA

HI-TACAN RWY 35

TACAN RDR Chan 111	APCH CRS 348°	Rwy ldg 12,351 THRE 913 Arpt Elev 913

JAL-5010 [USAF]

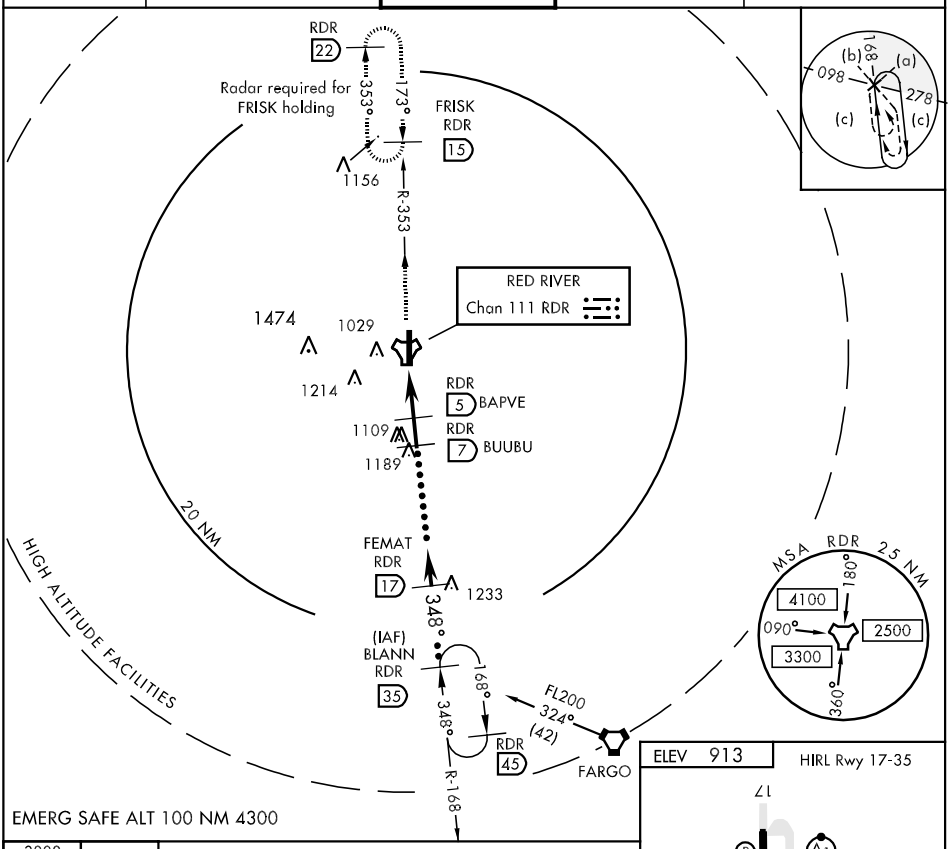
GRAND FORKS AFB (KRDR)

* When ALS inop, increase CAT CDE RVR to 60 and vis to 1⅛ miles.
** Circling E of Rwy 17-35 not authorized.

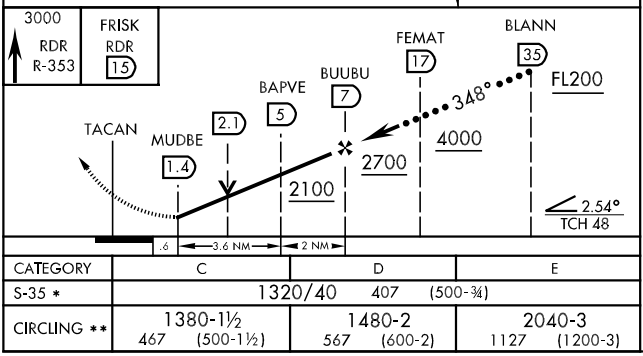
ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

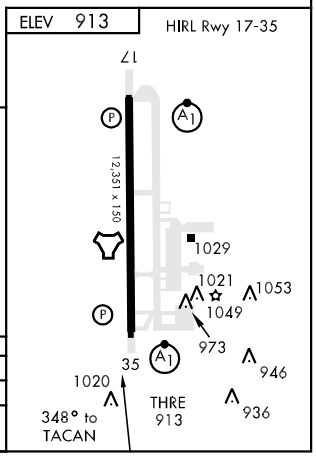
ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7



EMERG SAFE ALT 100 NM 4300



CATEGORY	C	D	E
S-35 *	1320/40 407 (500-¾)		
CIRCLING **	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)



GRAND FORKS, NORTH DAKOTA

47°58′N-97°24′W

GRAND FORKS AFB (KRDR)

Amdt 1 10210

HI-TACAN RWY 35

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

ILS or LOC RWY 17

LOC I-AVA	APCH CRS	Rwy ldg / THRE / Arpt Elev
111.3	174°	12,351 / 898 / 913

AL-5010 [USAF]

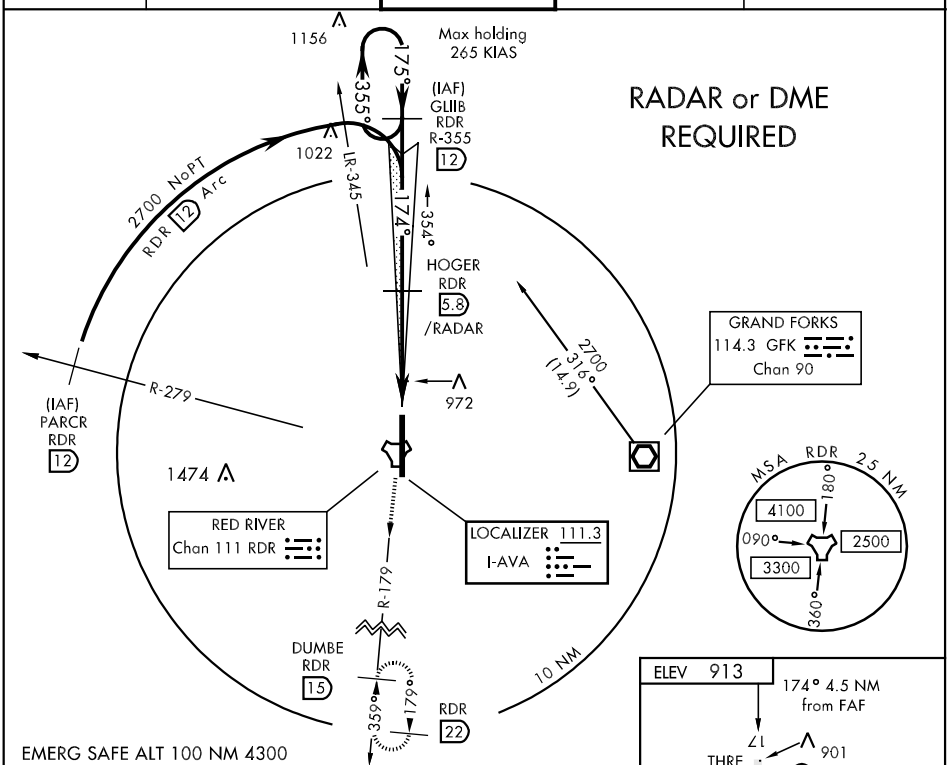
GRAND FORKS AFB (KRDR)

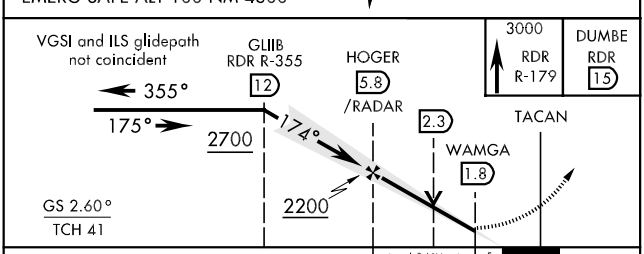
* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT ABCDE RVR to 55 and vis to 1 mile.
*** Circling E of Rwy 17-35 not authorized.

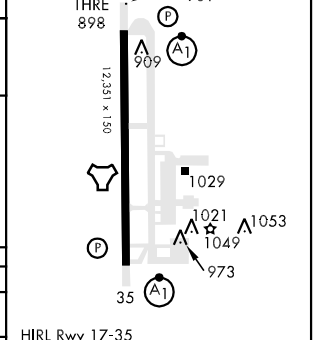
ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-179 to DUMBE and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7







CATEGORY	A	B	C	D	E
S-ILS 17 *	1102/24		204	(200-½)	
S-LOC 17 **	1240/24 342 (400-½)		1240/30 342 (400-⅝)		
CIRCLING ***	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

FAF to MAP 4.0 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

ILS or LOC RWY 35

GRAND FORKS AFB (KRDR)

LOC I-RDR	APCH CRS	Rwy ldg / THRE / Arpt Elev
109.9	354°	12,351 / 913 / 913

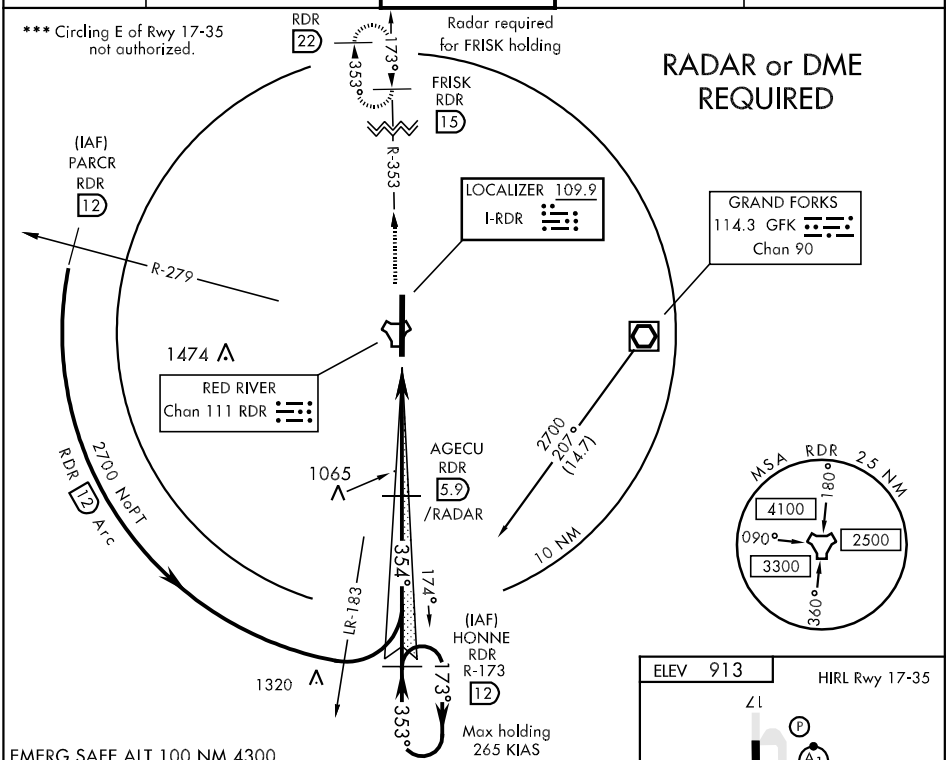
AL-5010 [USAF]

* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.

ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7



CATEGORY	A	B	C	D	E
S-ILS 35 *	1113/24 200 (200-½)				
S-LOC 35 **	1320/24 407 (500-½)		1320/40 407 (500-¾)		
CIRCLING ***	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

FAF to MAP 4.6 NM

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

NC-1, 21 OCT 2010 to 18 NOV 2010

TACAN RWY 17

TACAN RDR Chan 111	APCH CRS 179°	Rwy ldg 12,351 THRE 898 Arpt Elev 913

AL-5010 [USAF]

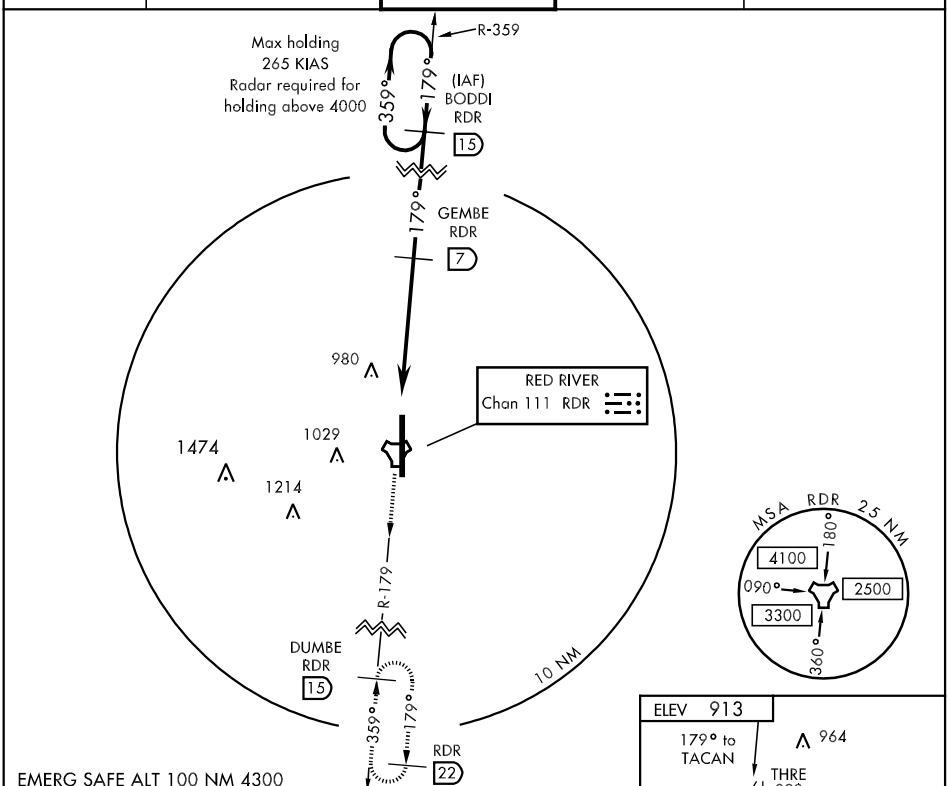
GRAND FORKS AFB (KRDR)

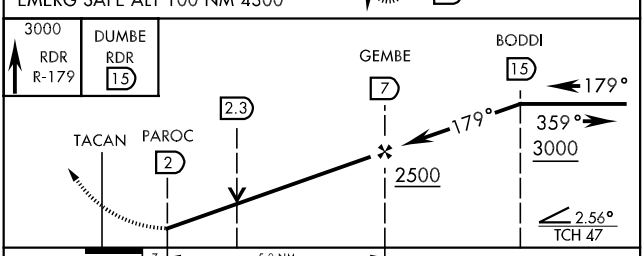
* When ALS inop, increase CAT ABCDE RVR to 55 and vis to 1 mile.
** Circling E of Rwy 17-35 not authorized.

ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-179 to DUMBE and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7





CATEGORY	A	B	C	D	E
S-17 *	1240/24 342 (400-½)		1240/40 342 (400-¾)		
CIRCLING **	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

TACAN RWY 35

GRAND FORKS AFB (KRDR)

TACAN RDR Chan 111	APCH CRS 348°	Rwy ldg 12,351 THRE 913 Arpt Elev 913

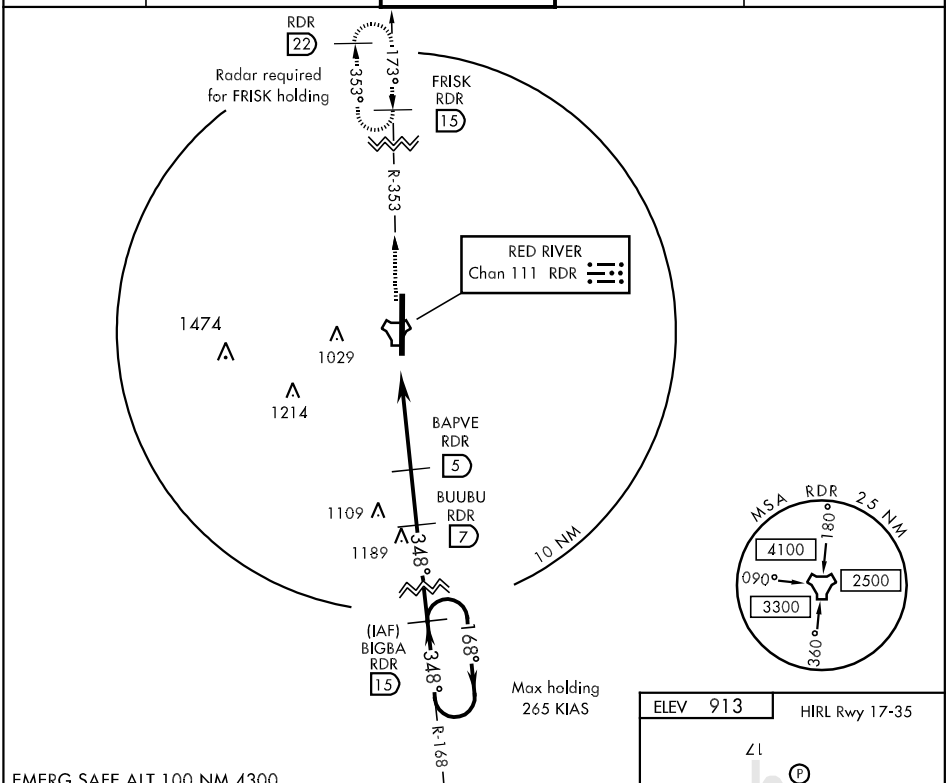
AL-5010 [USAF]

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.
** Circling E of Rwy 17-35 not authorized.

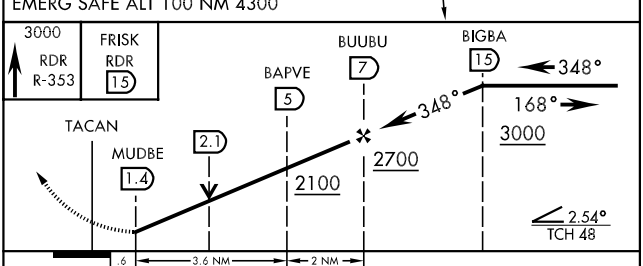
ALSF-1

MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

ATIS ★	GRAND FORKS APP CON	RED RIVER TOWER	GND CON	CLNC DEL
273.45	118.1 318.1	124.9 349.0	119.15 275.8	119.15 360.7



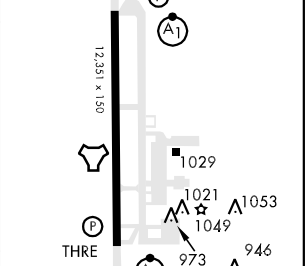
EMERG SAFE ALT 100 NM 4300



CATEGORY	A	B	C	D	E
S-35 *	1320/24 407 (500-½)		1320/40 407 (500-¾)		
CIRCLING **	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

ELEV 913

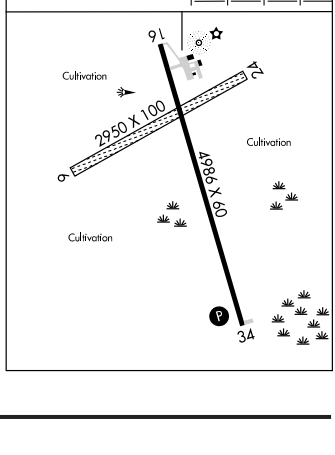
HIRL Rwy 17-35



47°58′N-97°24′W

NC-1, 21 OCT 2010 to 18 NOV 2010

GWINNER–ROGER MELROE FLD (GWR) 1 SE UTC−6(−5DT) N46°13.12′ W97°38.61′ **TWIN CITIES**
1266 B **FUEL** 100LL NOTAM FILE GFK **H–2H, L–14G**
RWY 16–34: H4986X60 (ASPH) S–14, D–19 MIRL **IAP**
RWY 16: Road. **RWY 34:** REIL. PAPI(P2L)—GA 3.0° TCH 25′.
RWY 06–24: 2950X100 (TURF) 0.5% up SW
RWY 06: Antenna. **RWY 24:** P-line.
AIRPORT REMARKS: Unattended. For arpt manager call 701–680–8000. For fuel call 701–680–8000. Deer and birds on and invof arpt. Rwy 06–24 CLOSED winter months. Rwy 16 +480′ lgtd tower 17,500′ fm thld 3000′ right of extended centerline. Confirm winter conditions and Rwy 16–34 snow removal with arpt manager, 701–680–8000 or city maintenance 701–678–2548. Rwy 16 + 42′ P-line 2440′ from thld on centerline apch ratio 50:1. Rwy 06–24 thld marked with red cones, no markers on rwy edges. ACTIVATE MIRL Rwy 16–34, PAPI and REIL Rwy 34—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.325 (701) 678–6801.
COMMUNICATIONS: CTAF/UNICOM 122.7
MINNEAPOLIS CENTER APP/DEP CON 127.35
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 217° 45.9 NM to fld. 910/9E. **HIWAS.**
NDB (MHW) 278 GWR N46°13.42′ W97°38.56′ at fld. NOTAM FILE GFK.

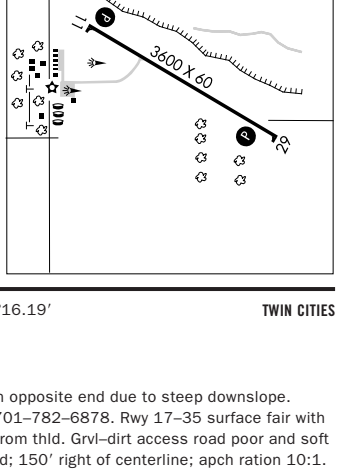


HAMRY FLD (See KINDRED)

HANKINS (See PARSHALL–HANKINS)

HARRY STERN (See WAHPETON)

HARVEY MUNI (5H4) 1 N UTC−6(−5DT) N47°47.47′ W99°55.91′ **TWIN CITIES**
1607 B **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 11–29: H3600X60 (ASPH) S 12.5 MIRL **IAP**
RWY 11: PAPI(P2L)—GA 3.0° TCH 26′. Road.
RWY 29: PAPI(P2L)—GA 3.0° TCH 28′. P-line.
AIRPORT REMARKS: Unattended. For fuel call 701–324–2225 Harvey police department or arpt manager 701–324–2000. Confirm snow removal after major storm with arpt manager 701–324–2000. Deer on and invof arpt. MIRL Rwy 11–29 preset on low ints, to increase ints—and ACTIVATE PAPI Rwy 11 and Rwy 29—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.825 (701) 324–2058.
COMMUNICATIONS: CTAF/UNICOM 122.8
MINNEAPOLIS CENTER APP/DEP CON 126.8
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 238° 45.5 NM to fld. 1448/7E.



HAZELTON MUNI (6H8) 1 E UTC−6(−5DT) N46°28.92′ W100°16.19′ **TWIN CITIES**
2003 NOTAM FILE GFK
RWY 17–35: 3800X100 (TURF)
RWY 17: Road. **RWY 35:** P–line.
AIRPORT REMARKS: Unattended. Pilots at W end of twy cannot see acft on opposite end due to steep downslope. Confirm winter conditions before use; snow removal irregular; call 701–782–6878. Rwy 17–35 surface fair with grass clumps and holes possible. Rwy 17 −3′ ditch 30′ outbound from thld. Grvl–dirt access road poor and soft when wet; potholes possible. Rwy 17 also +30′ trees 300′ from thld; 150′ right of centerline; apch ration 10:1. Twy centerline area has rough turf surface, smoothest is south third.
COMMUNICATIONS: CTAF 122.9

NDB GWR	APP CRS	Rwy ldg	4986
278	344°	TDZE	1256
		Apt Elev	1266

NDB RWY 34

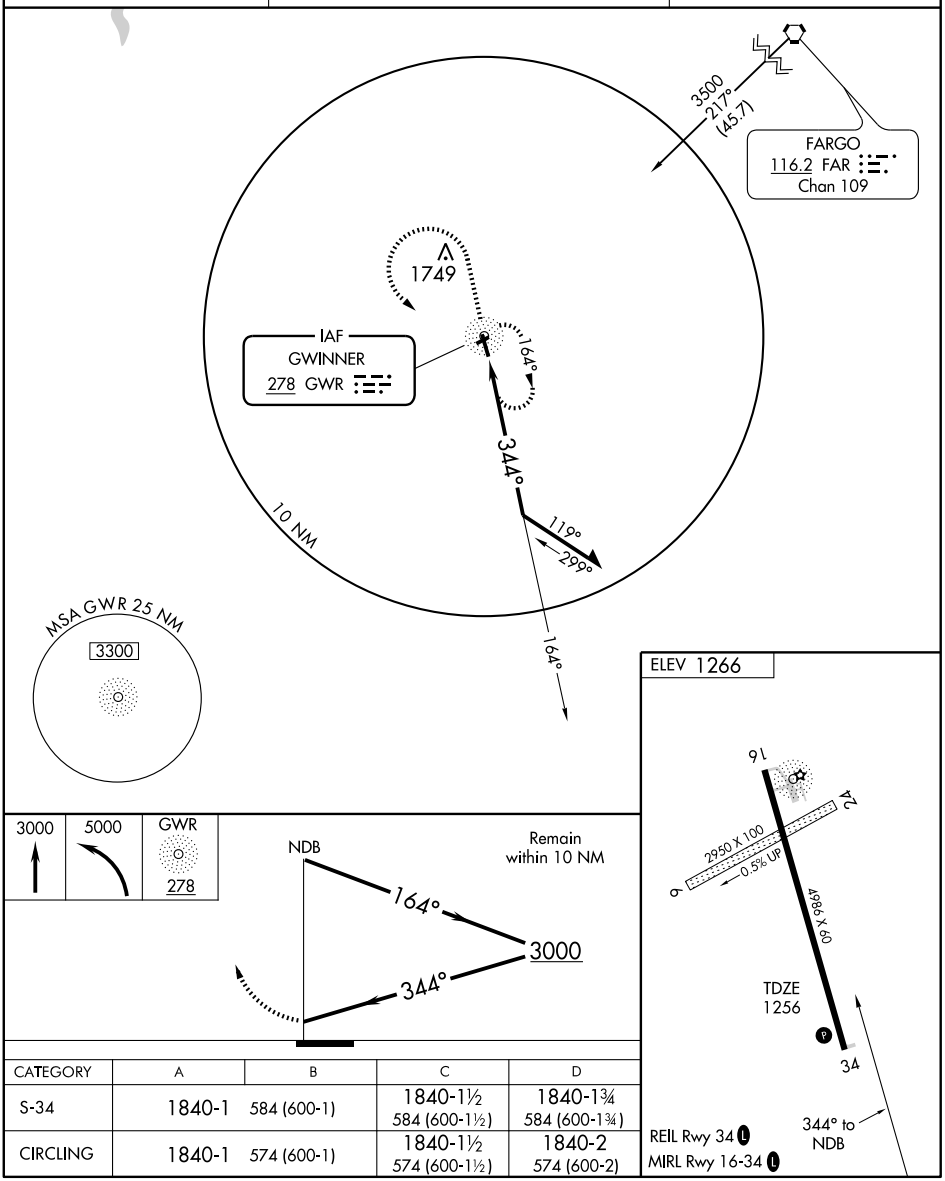
GWINNER-ROGER MELROE FIELD (GWR)

When local altimeter setting not received, use Fargo altimeter setting and increase all MDA 180 feet. Increase all Cat B visibilities ¼ mile, and all Cat C/D visibilities ¾ mile.

NA

MISSED APPROACH: Climb to 3000 then climbing left turn to 5000 direct GWR NDB and hold, continue climb-in-hold to 5000.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.325	127.35 278.3	122.7 (CTAF) L



CATEGORY	A	B	C	D
S-34	1840-1 584 (600-1)		1840-1½ 584 (600-1½)	1840-1¾ 584 (600-1¾)
CIRCLING	1840-1 574 (600-1)		1840-1½ 574 (600-1½)	1840-2 574 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	4986
160°	TDZE	1256
	Apt Elev	1266

RNAV (GPS) RWY 16

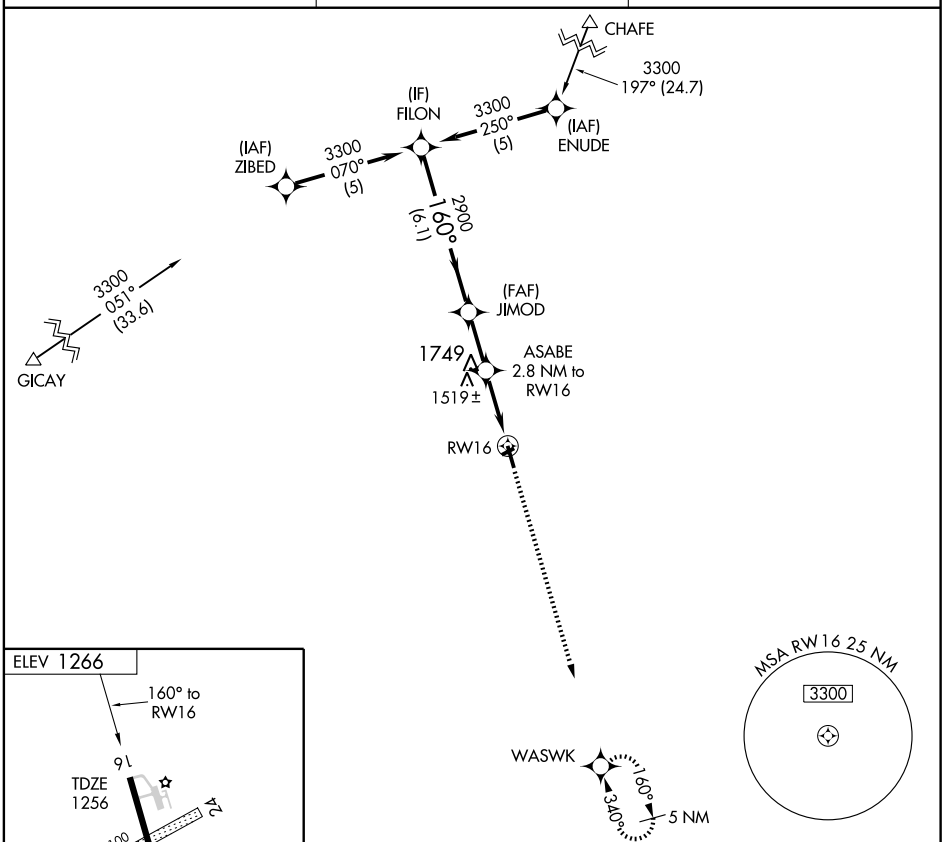
GWINNER-ROGER MELROE FIELD (GWR)

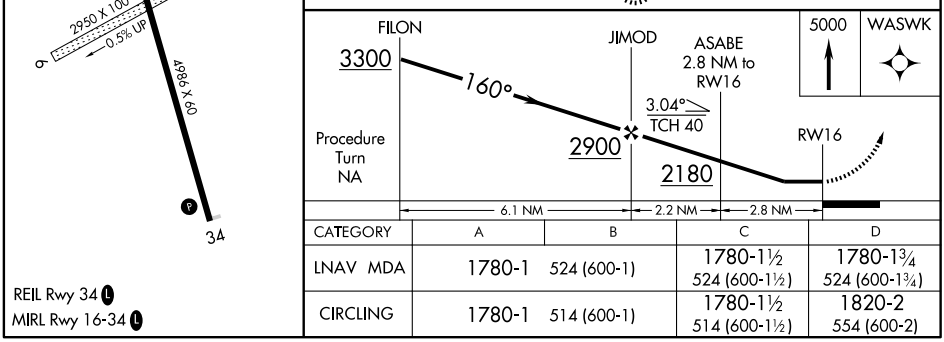
T NA

Circling to Rwy 6-24 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Fargo altimeter setting and increase all MDA 180 feet. Increase LNAV Cat C/D visibility ½ mile, Circling Cat C ½ mile and Cat D ¼ mile.

MISSED APPROACH: Climb to 5000 direct WASWK and hold, continue climb-in-hold to 5000.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.325	127.35 278.3	122.7 (CTAF) L





REIL Rwy 34 L
MIRL Rwy 16-34 L

CATEGORY	A	B	C	D
LNAV MDA	1780-1	524 (600-1)	1780-1½ 524 (600-1½)	1780-1¾ 524 (600-1¾)
CIRCLING	1780-1	514 (600-1)	1780-1½ 514 (600-1½)	1820-2 554 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 99317 W34A	APP CRS 340°	Rwy ldg 4986 TDZE 1255 Apt Elev 1266

RNAV (GPS) RWY 34

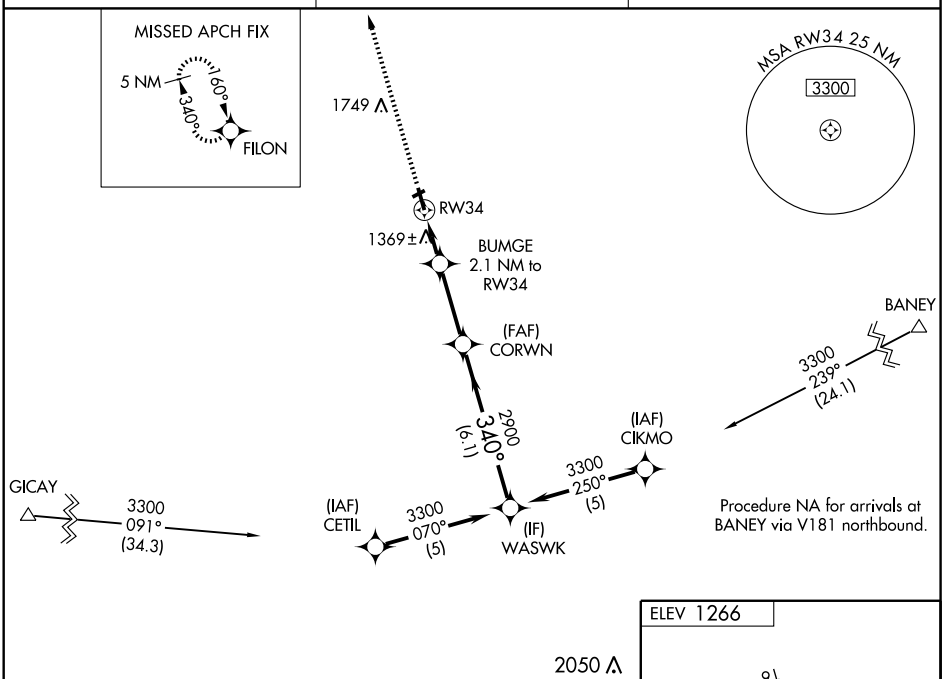
GWINNER-ROGER MELROE FIELD (GWR)

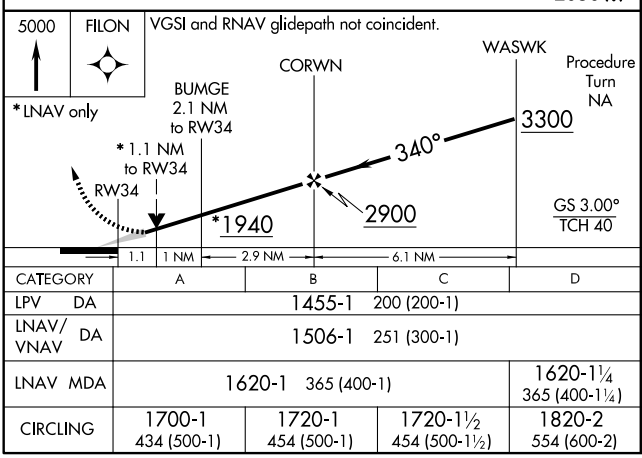
T
NA

Circling to Rwy 6-24 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fargo altimeter setting and increase all DA 176 feet, all MDA 180 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, increase LNAV Cat C/D visibility ½ mile and Circling CAT C/D ¼ mile. VDP and Baro-VNAV NA when using Fargo altimeter setting.

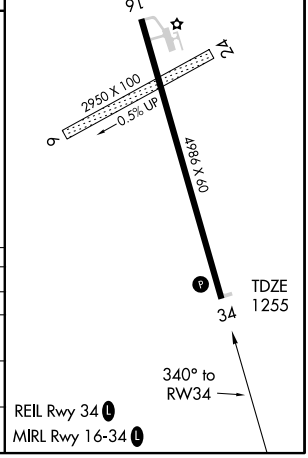
MISSED APPROACH: Climb to 5000 direct FILON and hold, continue climb-in-hold to 5000.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.325	127.35 278.3	122.7 (CTAF) L





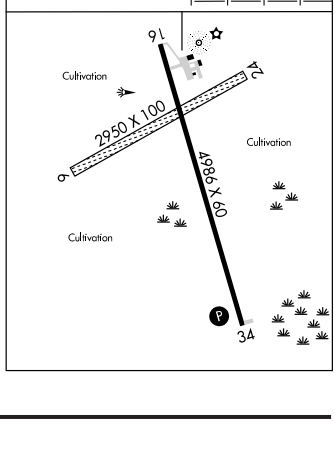
CATEGORY	A	B	C	D
LPV DA	1455-1 200 (200-1)			
LNAV/VNAV DA	1506-1 251 (300-1)			
LNAV MDA	1620-1 365 (400-1)			1620-1¼ 365 (400-1¼)
CIRCLING	1700-1 434 (500-1)	1720-1 454 (500-1)	1720-1½ 454 (500-1½)	1820-2 554 (600-2)



NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

GWINNER–ROGER MELROE FLD (GWR) 1 SE UTC−6(−5DT) N46°13.12′ W97°38.61′ **TWIN CITIES**
1266 B **FUEL** 100LL NOTAM FILE GFK **H–2H, L–14G**
RWY 16–34: H4986X60 (ASPH) S–14, D–19 MIRL **IAP**
RWY 16: Road. **RWY 34:** REIL. PAPI(P2L)—GA 3.0° TCH 25′.
RWY 06–24: 2950X100 (TURF) 0.5% up SW
RWY 06: Antenna. **RWY 24:** P-line.
AIRPORT REMARKS: Unattended. For arpt manager call 701–680–8000. For fuel call 701–680–8000. Deer and birds on and invof arpt. Rwy 06–24 CLOSED winter months. Rwy 16 +480′ lgtd tower 17,500′ fm thld 3000′ right of extended centerline. Confirm winter conditions and Rwy 16–34 snow removal with arpt manager, 701–680–8000 or city maintenance 701–678–2548. Rwy 16 + 42′ P-line 2440′ from thld on centerline apch ratio 50:1. Rwy 06–24 thld marked with red cones, no markers on rwy edges. ACTIVATE MIRL Rwy 16–34, PAPI and REIL Rwy 34—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.325 (701) 678–6801.
COMMUNICATIONS: CTAF/UNICOM 122.7
MINNEAPOLIS CENTER APP/DEP CON 127.35
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 217° 45.9 NM to fld. 910/9E. **HIWAS.**
NDB (MHW) 278 GWR N46°13.42′ W97°38.56′ at fld. NOTAM FILE GFK.

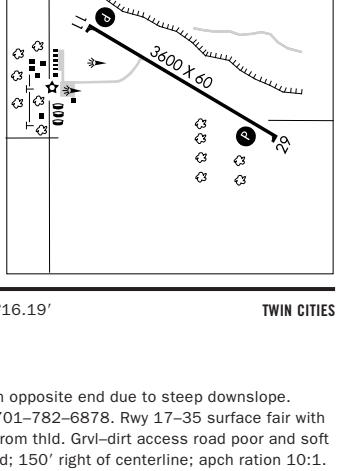


HAMRY FLD (See KINDRED)

HANKINS (See PARSHALL–HANKINS)

HARRY STERN (See WAHPETON)

HARVEY MUNI (5H4) 1 N UTC−6(−5DT) N47°47.47′ W99°55.91′ **TWIN CITIES**
1607 B **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 11–29: H3600X60 (ASPH) S 12.5 MIRL **IAP**
RWY 11: PAPI(P2L)—GA 3.0° TCH 26′. Road.
RWY 29: PAPI(P2L)—GA 3.0° TCH 28′. P-line.
AIRPORT REMARKS: Unattended. For fuel call 701–324–2225 Harvey police department or arpt manager 701–324–2000. Confirm snow removal after major storm with arpt manager 701–324–2000. Deer on and invof arpt. MIRL Rwy 11–29 preset on low ints, to increase ints—and ACTIVATE PAPI Rwy 11 and Rwy 29—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.825 (701) 324–2058.
COMMUNICATIONS: CTAF/UNICOM 122.8
MINNEAPOLIS CENTER APP/DEP CON 126.8
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 238° 45.5 NM to fld. 1448/7E.



HAZELTON MUNI (6H8) 1 E UTC−6(−5DT) N46°28.92′ W100°16.19′ **TWIN CITIES**
2003 NOTAM FILE GFK
RWY 17–35: 3800X100 (TURF)
RWY 17: Road. **RWY 35:** P–line.
AIRPORT REMARKS: Unattended. Pilots at W end of twy cannot see acft on opposite end due to steep downslope. Confirm winter conditions before use; snow removal irregular; call 701–782–6878. Rwy 17–35 surface fair with grass clumps and holes possible. Rwy 17 −3′ ditch 30′ outbound from thld. Grvl–dirt access road poor and soft when wet; potholes possible. Rwy 17 also +30′ trees 300′ from thld; 150′ right of centerline; apch ration 10:1. Twy centerline area has rough turf surface, smoothest is south third.
COMMUNICATIONS: CTAF 122.9

APP CRS	Rwy ldg	3600
112°	TDZE	1607
	Apt Elev	1607

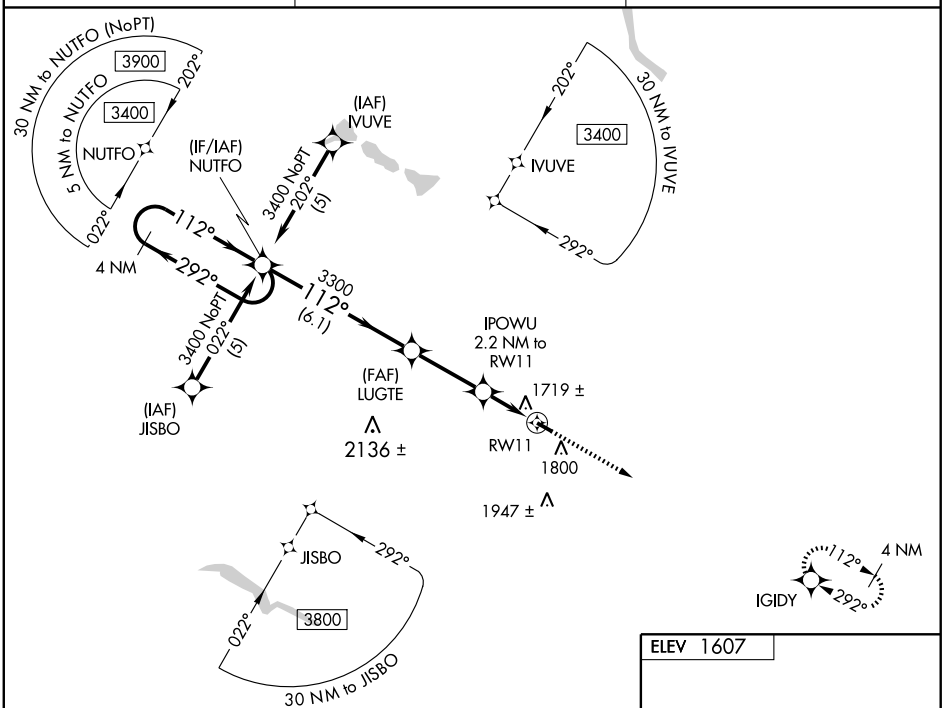
RNAV (GPS) RWY 11
HARVEY MUNI (5H4)

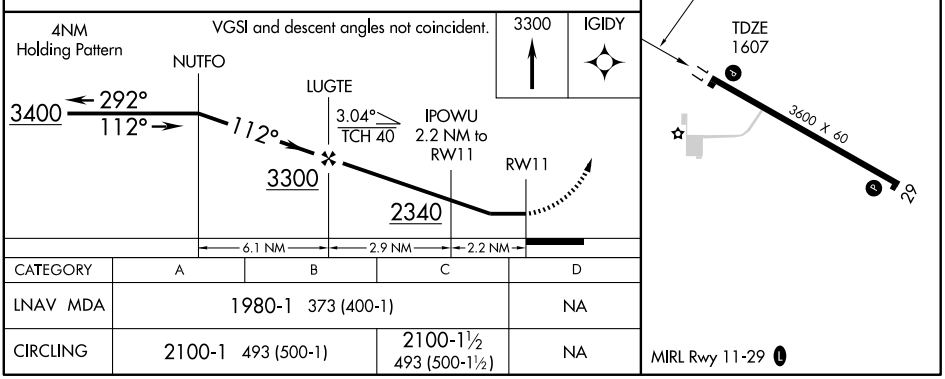
DME/DME RNP-0.3 NA. Procedure NA at night.
Visibility reduction by helicopters NA. When local altimeter setting not received; use Devil's Lake altimeter setting and increase all MDA 140 feet; increase LNAV Cat C visibility ½ mile and Circling Cat C visibility ¼ mile.

NA

MISSED APPROACH: Climb to 3300 direct IGIDY and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.825	126.8 256.7	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1980-1 373 (400-1)			NA
CIRCLING	2100-1 493 (500-1)		2100-1½ 493 (500-1½)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH **82219** **W29A**	APP CRS **292°**	Rwy ldg **3600** TDZE **1607** Apt Elev **1607**

RNAV (GPS) RWY 29

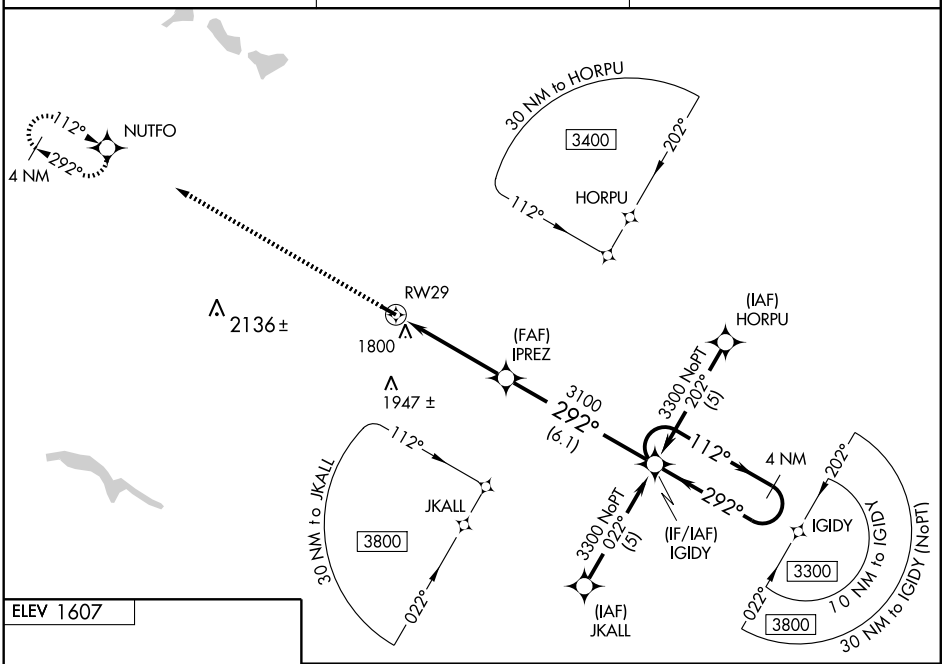
HARVEY MUNI (5H4)

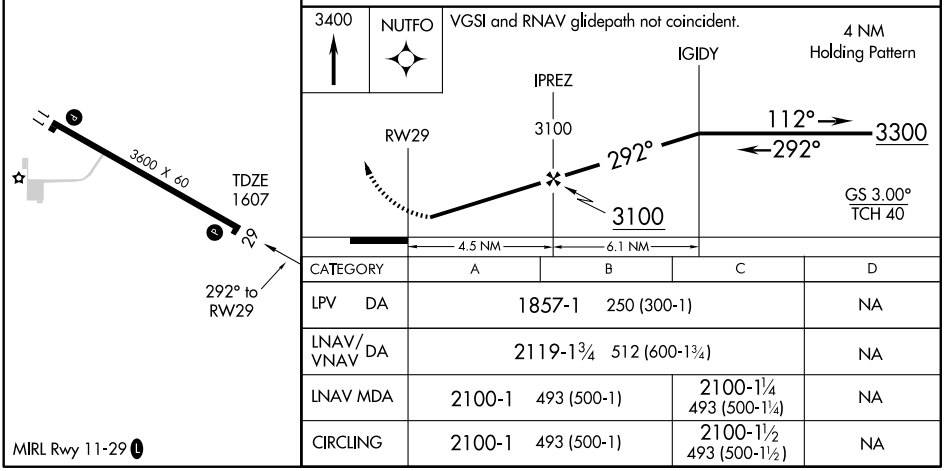
T NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). Circling to Rwy 11 NA at night. Baro-VNAV NA when using Devil's Lake altimeter setting. When local altimeter setting not received, use Devil's Lake altimeter setting and increase all DA 127 feet, and all MDA 140 feet; increase LPV visibility ¼ mile Cats A, B, and C, LNAV/VNAV visibility Cats A, B, C, and LNAV Cat C visibility ½ mile and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3400 direct NUTFO and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.825	**126.8 256.7**	**122.8** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1857-1 250 (300-1)			NA
LNAV/VNAV DA	2119-1¾ 512 (600-1¾)			NA
LNAV MDA	2100-1 493 (500-1)		2100-1¼ 493 (500-1¼)	NA
CIRCLING	2100-1 493 (500-1)		2100-1½ 493 (500-1½)	NA

MIRL Rwy 11-29 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

HAZEN N47°16.17′ W101°25.67′ BILLINGS

RCO 122.45 (GRAND FORKS RADIO) L–14F

HAZEN

MERCER CO RGNL (HZE) 2 E UTC−6(−5DT) N47°17.40′ W101°34.86′ BILLINGS

1814 B S2 **FUEL** 100LL, JET A NOTAM FILE GFK L–14F

RWY 14–32: H4999X75 (ASPH) S–17 MIRL 0.5% up SE IAP

RWY 14: PAPI(P2L)—GA 3.0° TCH 27′.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 29′.

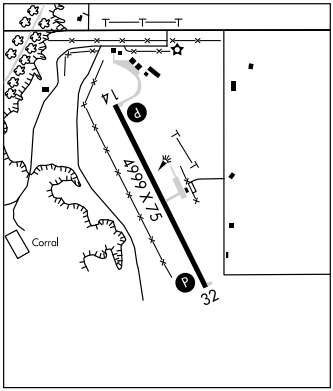
AIRPORT REMARKS: Unattended.Self svc 24 hr credit card fueling avbl. Confirm snow removal Oct–Apr, call 701–880–0042. Transportation svc call 701–880–0042. 654′ lgtd twr 3.8 NM from thld Rwy 14. Rwy 14–32 twy and apron marked with reflectors. Rwy 14–32 apron has 2 CONC 20,000 lb single weight tiedown spaces. ACTIVATE MIRL Rwy 14–32, REIL Rwy 32, and PAPI Rwy 14 and Rwy 32—CTAF

COMMUNICATIONS: CTAF 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 298° 49.2 NM to fld. 1841/12E. **HIWAS.**



HECTOR INTL (See FARGO)

HETTINGER MUNI (HEI) 1 NW UTC−7(−6DT) N46°00.94′ W102°39.34′ BILLINGS

2705 B S4 **FUEL** 100LL, A NOTAM FILE HEI L–14F

RWY 12–30: H4652X75 (ASPH) S–11.5 MIRL IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 25′. Fence.

RWY 30: PAPI(P2L)—GA 3.0° TCH 25′. Fence.

RWY 17–35: 1890X100 (TURF)

RWY 35: Fence.

AIRPORT REMARKS: Attended Mon–Sat 1400–0000Z‡. For attendant dusk–dawn call 701–567–2069. 24 hr self svc fuel avbl with credit card. Deer on and invof arpt. Twys illuminated with reflectors for nighttime use. Confirm winter conditions Rwy 17–35, call arpt manager 701–567–2069. Rotating bcn OTS indef. MIRL Rwy 12–30 preset on low ints dusk–0630Z‡, after 0630Z‡ ACTIVATE—CTAF. To increase ints and ACTIVATE PAPI Rwy 12 and Rwy 30—CTAF.

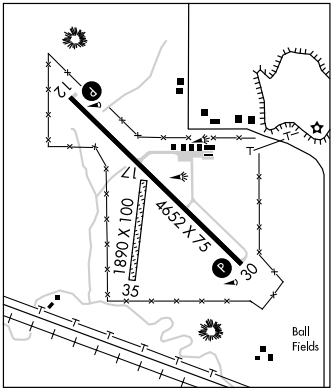
WEATHER DATA SOURCES: ASOS 119.925 (701) 567–4594.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.

DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 160° 51.0 NM to fld. 2520/14E. **HIWAS.**



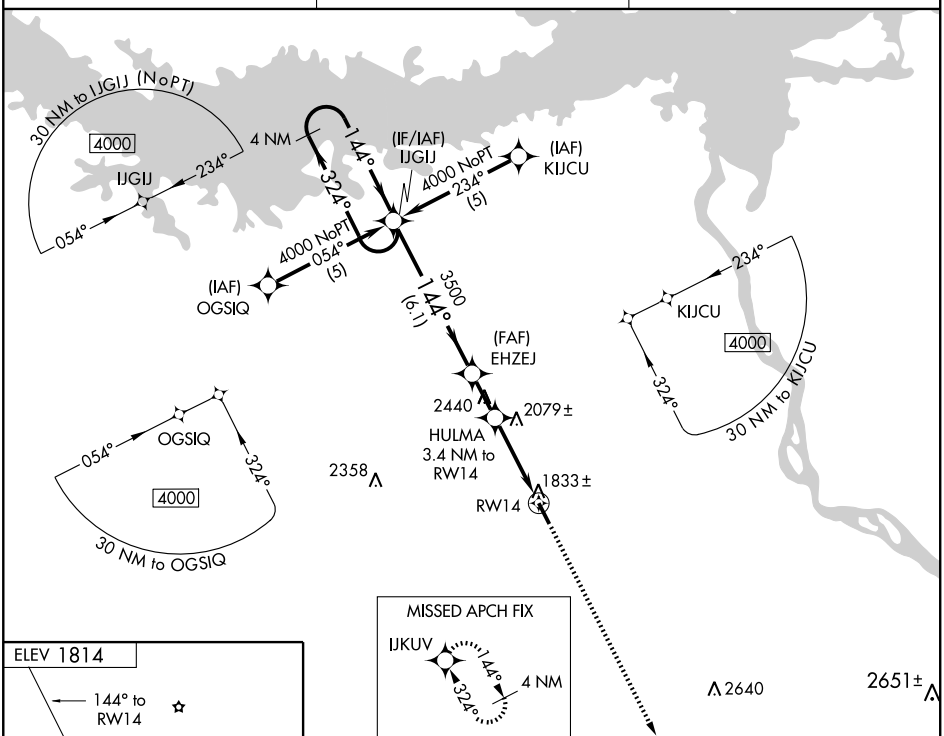
WAAS CH 48818 W14A	APP CRS 144°	Rwy ldg 4999 TDZE 1787 Apt Elev 1814

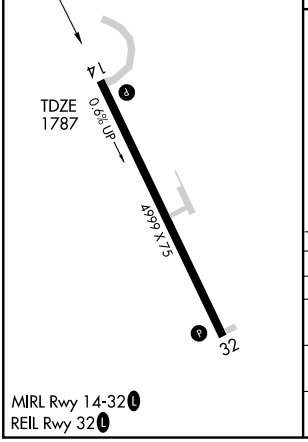
RNAV (GPS) RWY 14
HAZEN/MERCER COUNTY RGNL (HZE)

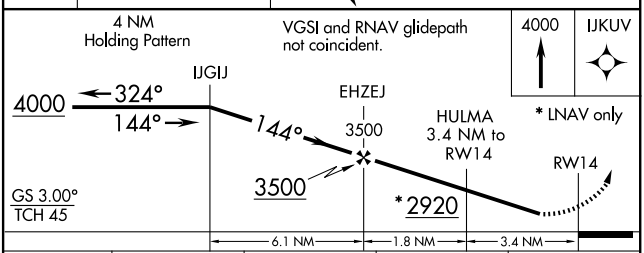
When VGSI inoperative, procedure NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Bismarck altimeter setting, when not received use Minot Intl altimeter setting and increase all DA 23 feet and all MDA 40 feet. Increase LPV and LNAV/VNAV visibility all Cats ¼ mile.

MISSED APPROACH: Climb to 4000 direct IJKUV and hold.

BISMARCK ASOS	MINNEAPOLIS CENTER	CTAF
119.35	124.25 380.3	122.8 L







CATEGORY	A	B	C	D
LPV DA	2165-1¼ 378 (400-1¼)			NA
LNAV/VNAV DA	2231-1½ 444 (500-1½)			NA
LNAV MDA	2460-1 673 (700-1)		2460-2 673 (700-2)	NA
CIRCLING	2460-1 646 (700-1)		2460-2 646 (700-2)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

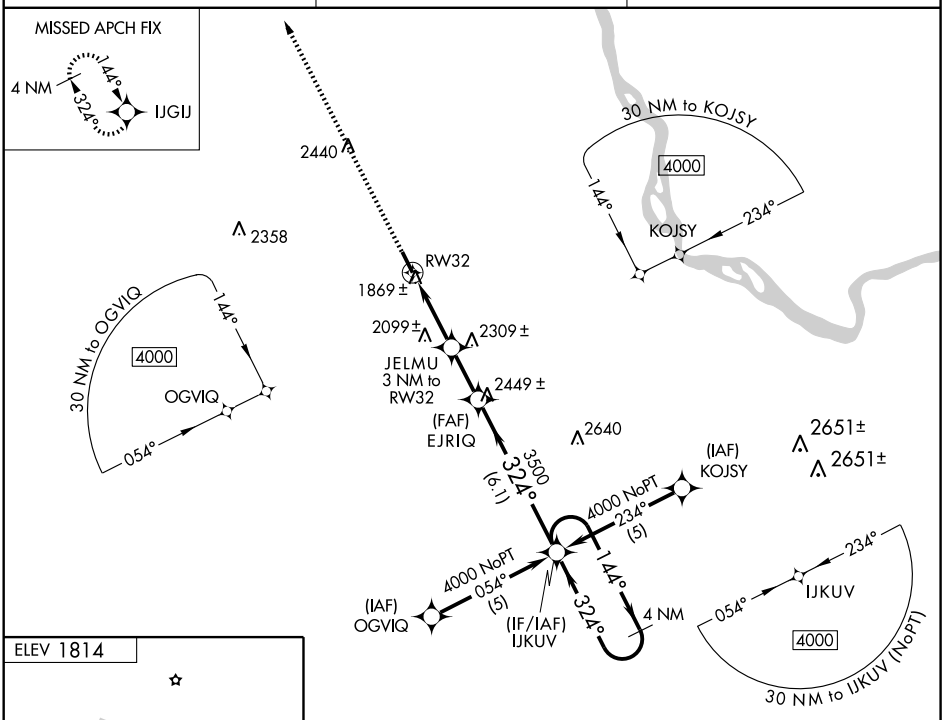
WAAS CH 53318 W32A	APP CRS 324°	Rwy ldg 4999 TDZE 1814 Apt Elev 1814

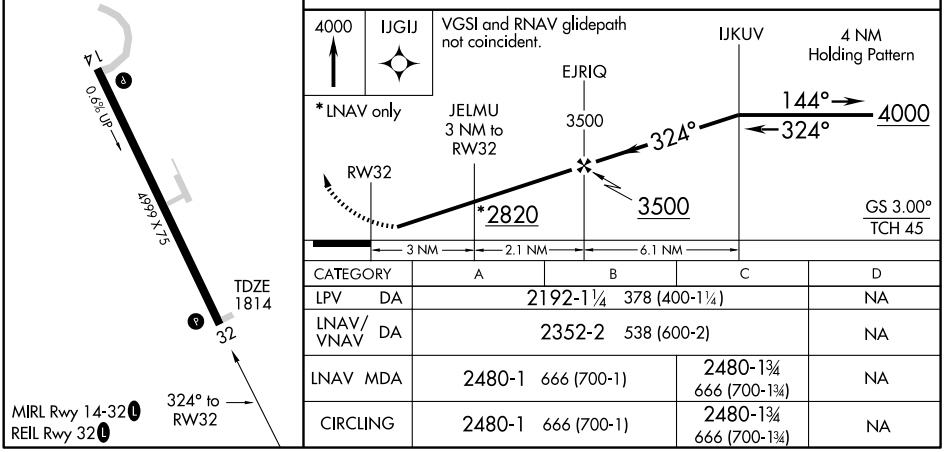
RNAV (GPS) RWY 32
HAZEN/MERCER COUNTY RGNL (HZE)

When VGSI inoperative, procedure NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Bismarck altimeter setting, when not received use Minot Intl altimeter setting and increase all DA 23 feet and all MDA 40 feet. Increase LPV all Cats, LNAV Cat C and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct IJGIJ and hold.

BISMARCK ASOS	MINNEAPOLIS CENTER	CTAF
119.35	124.25 380.3	122.8 L





CATEGORY	A	B	C	D
LPV DA	2192-1¼ 378 (400-1¼)			NA
LNAV/VNAV DA	2352-2 538 (600-2)			NA
LNAV MDA	2480-1 666 (700-1)		2480-1¾ 666 (700-1¾)	NA
CIRCLING	2480-1 666 (700-1)		2480-1¾ 666 (700-1¾)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

HAZEN N47°16.17′ W101°25.67′ BILLINGS

RCO 122.45 (GRAND FORKS RADIO) L–14F

HAZEN

MERCER CO RGNL (HZE) 2 E UTC−6(−5DT) N47°17.40′ W101°34.86′ BILLINGS

1814 B S2 **FUEL** 100LL, JET A NOTAM FILE GFK L–14F

RWY 14–32: H4999X75 (ASPH) S–17 MIRL 0.5% up SE IAP

RWY 14: PAPI(P2L)—GA 3.0° TCH 27′.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 29′.

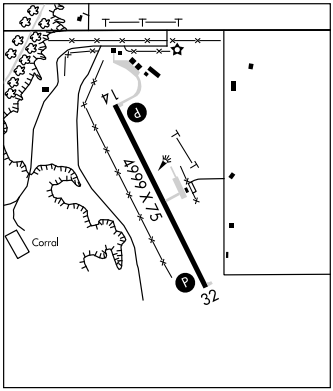
AIRPORT REMARKS: Unattended.Self svc 24 hr credit card fueling avbl. Confirm snow removal Oct–Apr, call 701–880–0042. Transportation svc call 701–880–0042. 654′ lgtd twr 3.8 NM from thld Rwy 14. Rwy 14–32 twy and apron marked with reflectors. Rwy 14–32 apron has 2 CONC 20,000 lb single weight tiedown spaces. ACTIVATE MIRL Rwy 14–32, REIL Rwy 32, and PAPI Rwy 14 and Rwy 32—CTAF

COMMUNICATIONS: CTAF 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 298° 49.2 NM to fld. 1841/12E. **HIWAS.**



HECTOR INTL (See FARGO)

HETTINGER MUNI (HEI) 1 NW UTC−7(−6DT) N46°00.94′ W102°39.34′ BILLINGS

2705 B S4 **FUEL** 100LL, A NOTAM FILE HEI L–14F

RWY 12–30: H4652X75 (ASPH) S–11.5 MIRL IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 25′. Fence.

RWY 30: PAPI(P2L)—GA 3.0° TCH 25′. Fence.

RWY 17–35: 1890X100 (TURF)

RWY 35: Fence.

AIRPORT REMARKS: Attended Mon–Sat 1400–0000Z‡. For attendant dusk–dawn call 701–567–2069. 24 hr self svc fuel avbl with credit card. Deer on and invof arpt. Twys illuminated with reflectors for nighttime use. Confirm winter conditions Rwy 17–35, call arpt manager 701–567–2069. Rotating bcn OTS indef. MIRL Rwy 12–30 preset on low ints dusk–0630Z‡, after 0630Z‡ ACTIVATE—CTAF. To increase ints and ACTIVATE PAPI Rwy 12 and Rwy 30—CTAF.

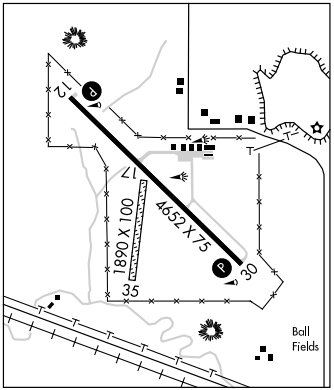
WEATHER DATA SOURCES: ASOS 119.925 (701) 567–4594.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.

DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 160° 51.0 NM to fld. 2520/14E. **HIWAS.**



APP CRS	Rwy ldg	4652
308°	TDZE	2705
	Apt Elev	2705

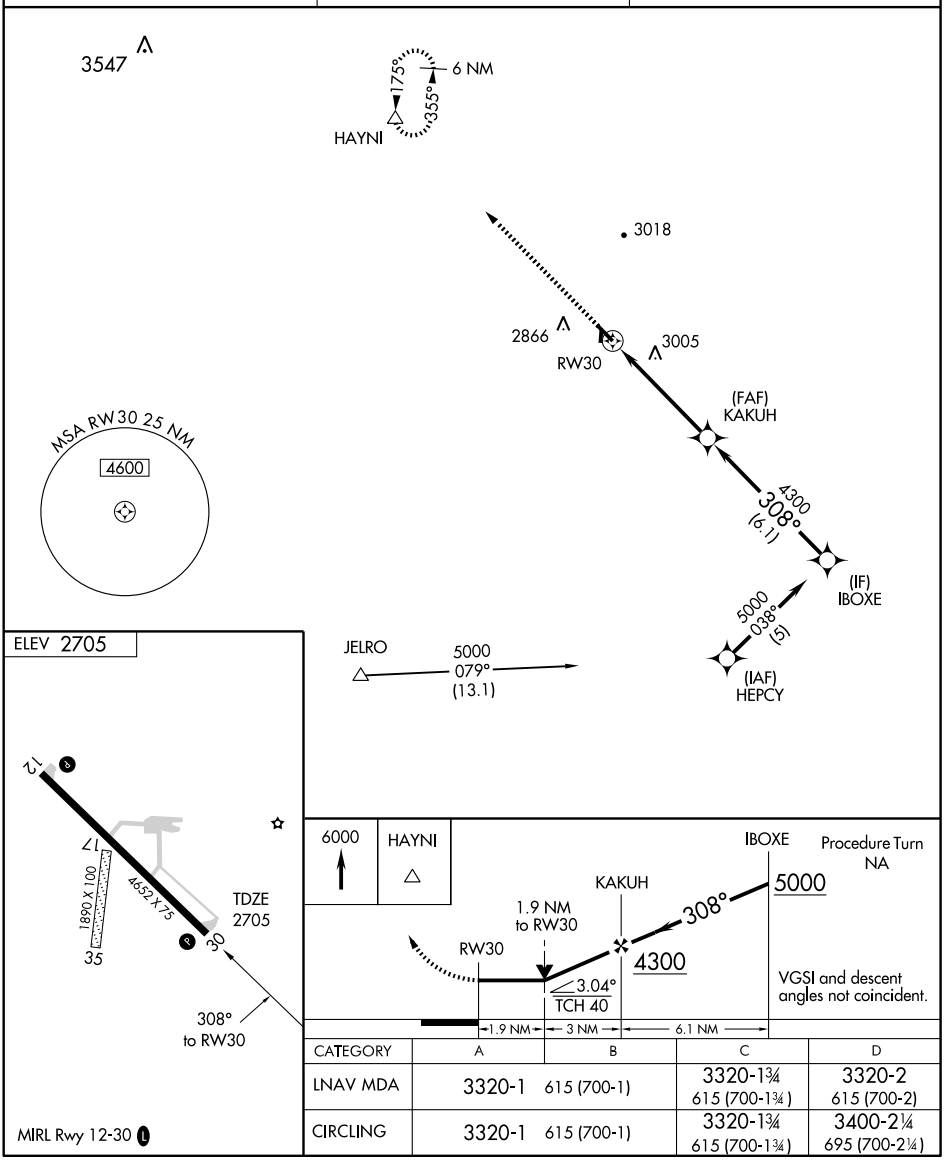
RNAV (GPS) RWY 30

HETTINGER MUNI (HEI)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Bowman altimeter setting and increase all MDA 120 feet. Increase LNAV Cat C/D visibilities ¼ mile, Circling Cat C ¼ mile, and Cat D ½ mile. VDP NA with Bowman altimeter setting.

MISSED APPROACH:
Climb to 6000 direct HAYNI and hold, continue climb-in-hold to 6000.

ASOS	MINNEAPOLIS CENTER	UNICOM
119.925	124.25 380.3	122.8 (CTAF) L

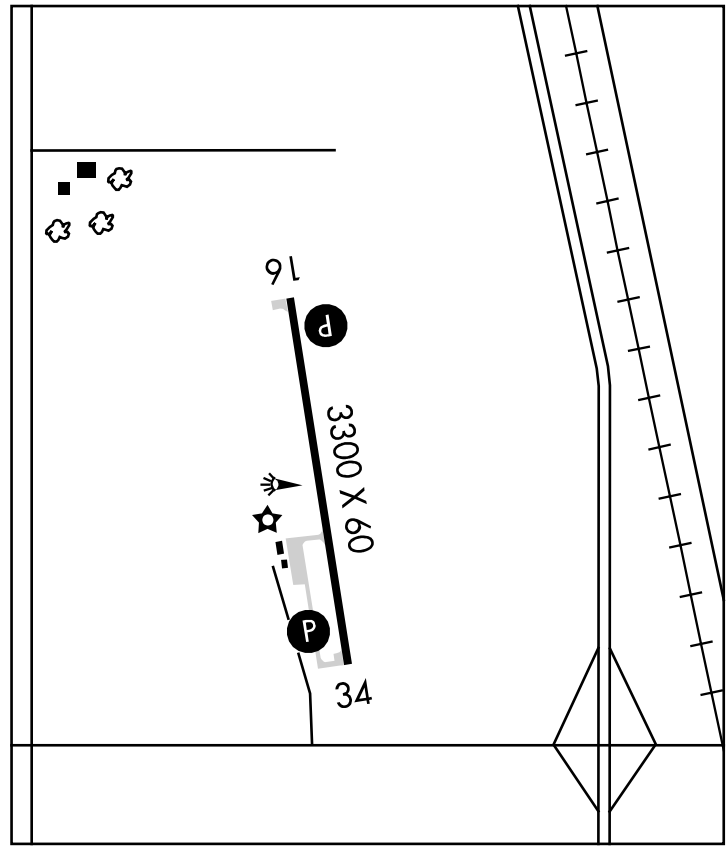


CATEGORY	A	B	C	D
LNAV MDA	3320-1 615 (700-1)		3320-1¾ 615 (700-1¾)	3320-2 615 (700-2)
CIRCLING	3320-1 615 (700-1)		3320-1¾ 615 (700-1¾)	3400-2¼ 695 (700-2¼)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

HILLSBORO MUNI (3H4) 3 S UTC−6(−5DT) N47°21.57′ W97°03.62′ **TWIN CITIES**
905 B S4 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 16–34: H3300X60 (ASPH) S–16.5 MIRL **IAP**
RWY 16: PAPI(P2L)—GA 3.0° TCH 25′.
RWY 34: PAPI(P2L)—GA 3.0° TCH 25′. Road.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. After hrs on call 701–430–1444. Fuel 24 hr self svc credit card fuel avbl. For snow removal or winter conditions call arpt 701–436–4039 or 430–1444. Aerial spraying ops May–Aug invof arpt. ACTIVATE MIRL Rwy 16–34 and PAPI Rwy 16 and Rwy 34—CTAF.
COMMUNICATIONS: CTAF 122.9
Ⓡ **FARGO APP/DEP CON** 120.4 (1200–0500Z‡)
Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.35 (0500–1200Z‡)
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 163° 36.1 NM to fld. 841/9E. **HIWAS.**



HISER N47°50.78′ W97°10.89′ NOTAM FILE GFK. **TWIN CITIES**
NDB(LOM) 345 GF 356° 6.2 NM to Grand Forks Intl.

HUTSON FLD (See GRAFTON)

INTL PEACE GARDEN (See DUNSEITH)

JADAN N46°41.88′ W100°38.86′ NOTAM FILE BIS. **TWIN CITIES**
NDB (LOM) 230 BI 307° 6.1 NM to Bismarck Muni. Unmonitored. **L–14F**

APP CRS	Rwy ldg	3300
166°	TDZE	905
	Apt Elev	905

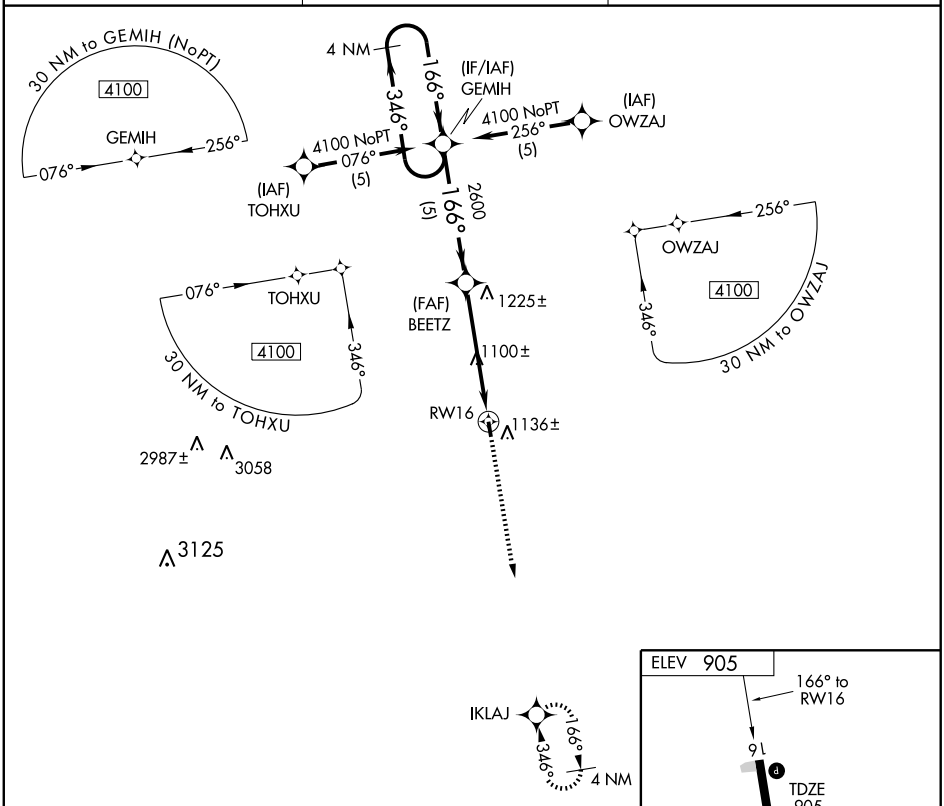
RNAV (GPS) RWY 16
HILLSBORO MUNI (3H4)

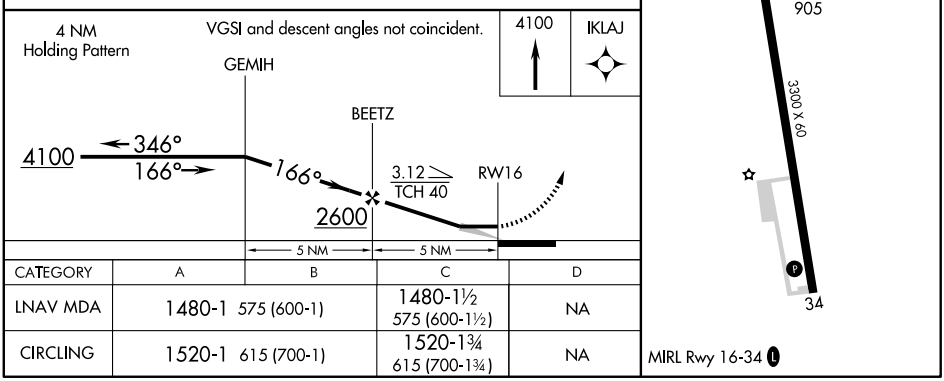
T
A NA

DME/DME RNP- 0.3 NA.
Use Fargo altimeter setting.

MISSED APPROACH: Climb to 4100 direct IKLAJ WP and hold.

FARGO ASOS	FARGO APP CON ★	CTAF
124.5	120.4 377.15	122.9 L





CATEGORY	A	B	C	D
LNAV MDA	1480-1 575 (600-1)		1480-1½ 575 (600-1½)	NA
CIRCLING	1520-1 615 (700-1)		1520-1¾ 615 (700-1¾)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	3300
346°	TDZE	905
	Apt Elev	905

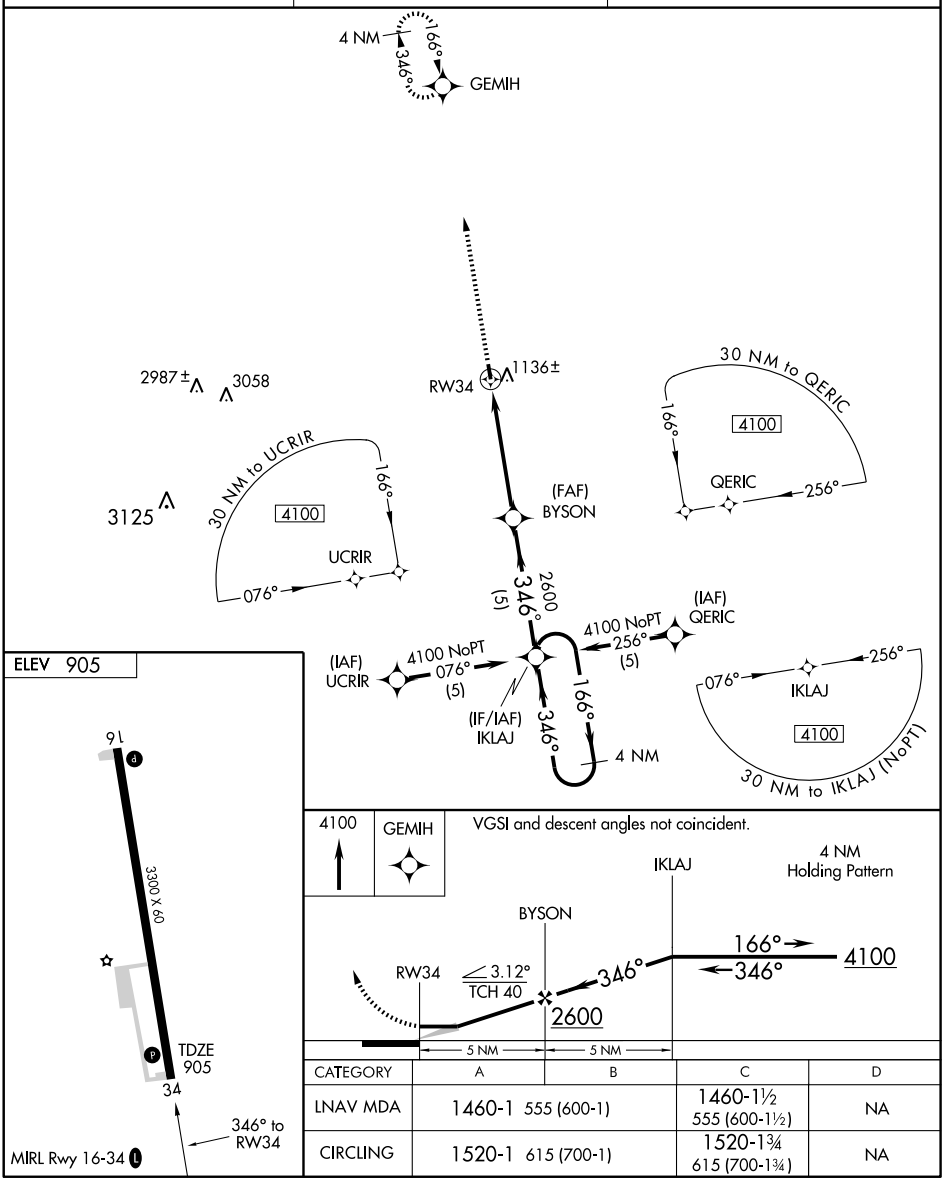
RNAV (GPS) RWY 34
HILLSBORO MUNI (3H4)

NA

DME/DME RNP- 0.3 NA.
Use Fargo altimeter setting.

MISSED APPROACH: Climb to 4100 direct GEMIH WP and hold.

FARGO ASOS	FARGO APP CON★	CTAF
124.5	120.4 377.15	122.9 L

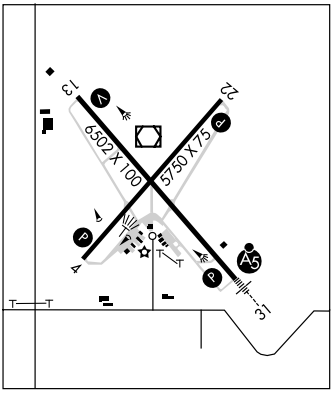


CATEGORY	A	B	C	D
LNAV MDA	1460-1 555 (600-1)		1460-1½ 555 (600-1½)	NA
CIRCLING	1520-1 615 (700-1)		1520-1¾ 615 (700-1¾)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

JAMESTOWN RGNL (JMS) 2 NE UTC−6(−5DT) N46°55.78′ W98°40.69′ **TWIN CITIES**
1500 B S4 **FUEL** 100LL, JET A OX 3 Class I, ARFF Index A NOTAM FILE JMS **H–2I, L–14G**
RWY 13–31: H6502X100 (ASPH–GRVD) S–130, D–160, 2S–175, 2D–250 HIRL **IAP**
RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 51′. Tree.
RWY 31: MALSR. PAPI(P4L)—GA 3.0° TCH 50′.
RWY 04–22: H5750X75 (ASPH) S–85, D–103, 2S–131, 2D–162 MIRL
RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 20′. Pole.
RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 20′.



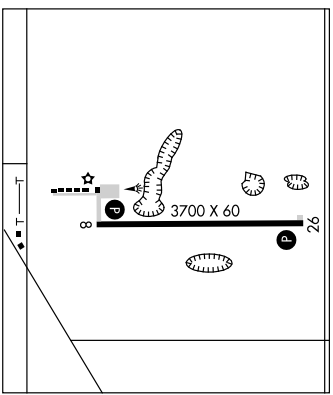
RUNWAY DECLARED DISTANCE INFORMATION

RWY 04:	TORA–5750	TODA–5750	ASDA–5750	LDA–5750
RWY 13:	TORA–6502	TODA–6502	ASDA–6502	LDA–6502
RWY 22:	TORA–5750	TODA–5750	ASDA–5750	LDA–5750
RWY 31:	TORA–6502	TODA–6502	ASDA–6502	LDA–6502

AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. For attendant after hrs, call 701–952–1515. Fuel 100LL avbl 24 hrs with credit card. 24 hr pilot lounge avbl. Birds on and invof arpt. 48 hrs PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 701–252–0224/701–252–6466. Air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arrival/departure times without prior coordination with arpt manager and confirmation that ARFF is avbl prior to landing or takeoff. Rwy 13 VASI restricted to +/- 8° either side of centerline. ACTIVATE MIRL Rwy 04–22, HIRL Rwy 13–31, MALSR Rwy 31, VASI Rwy 13, REIL Rwy 13, Rwy 04, and Rwy 22, and PAPI Rwy 04, Rwy 22 and Rwy 31—CTAF.
WEATHER DATA SOURCES: ASOS 118.425 (701) 251–9002.
HIWAS 114.5 JMS.
COMMUNICATIONS: CTAF/UNICOM 123.0
RCO 123.6 122.2 (GRAND FORKS RADIO)
MINNEAPOLIS CENTER APP/DEP CON 124.2
RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.
(L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ at fld. 1493/10E. **HIWAS.**
SABON NDB (LOM) 395 JM N46°51.77′ W98°34.84′ 307° 5.7 NM to fld.
ILS/DME 109.3 I–JMS Chan 30 Rwy 31 Class IE. LOM SABON NDB. ILS unmonitored.

KENIE N47°00.56′ W96°48.91′ NOTAM FILE FAR. **TWIN CITIES**
NDB (HW/LOM) 365 AA 174° 5.3 NM to Hector Intl. **L–14G**

KENMARE MUNI (7K5) 1 SE UTC−6(−5DT) N48°40.06′ W102°02.86′ **BILLINGS**
1962 B **FUEL** 100LL NOTAM FILE GFK **L–14F**
RWY 08–26: H3700X60 (ASPH) S–12 MIRL **IAP**
RWY 08: PAPI(P2L)–GA 3.0° TCH 25′. Pole.
RWY 26: PAPI(P2L)–GA 3.0° TCH 25′. Road.



AIRPORT REMARKS: Unattended. 24 hr self svc fuel avbl with credit card. Confirm winter conditions and snow removal with arpt manager 701–385–4029. Waterfowl on or invof arpt. Wildlife refuge located 3500′ west. ACTIVATE MIRL Rwy 08–26 and PAPI Rwy 08 and Rwy 26—CTAF.
COMMUNICATIONS: CTAF 122.8
Ⓡ **MINOT APP/DEP CON** 119.6 (Opr 24 hrs from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡), other hrs ctc **MINNEAPOLIS CENTER APP/DEP CON** 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLSTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 057° 72.4 NM to fld. 2372/12E.
HIWAS.

LOC/DME I-JMS	APP CRS	Rwy ldg 6502
109.3	307°	TDZE 1498
Chan 30		Apt Elev 1500

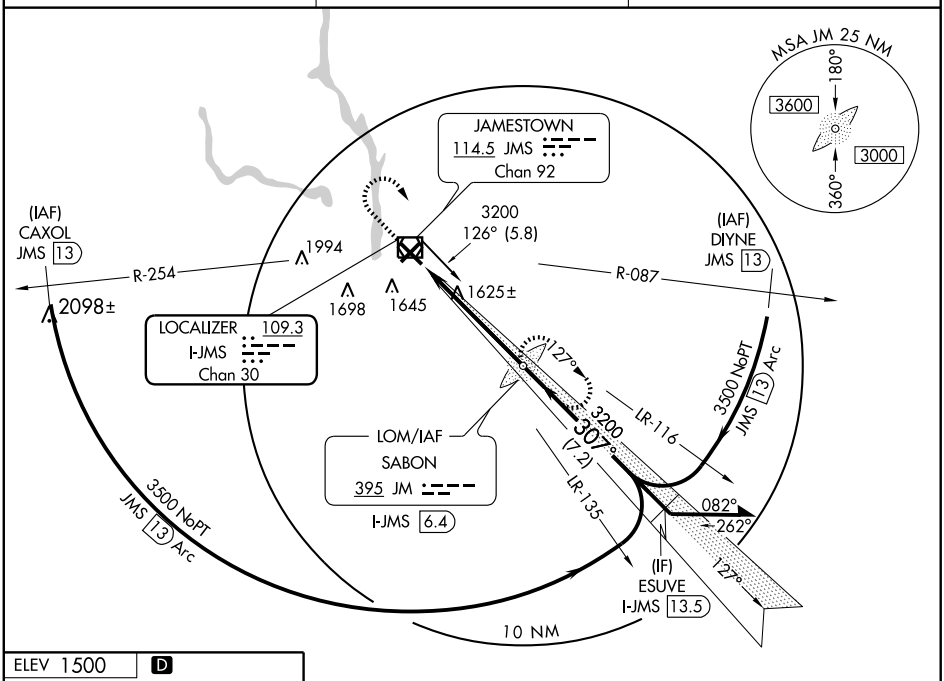
ILS or LOC RWY 31
JAMESTOWN RGNL (JMS)

NA

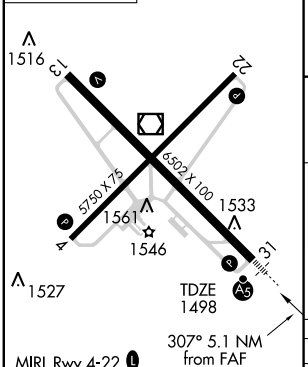
MALSR

MISSED APPROACH: Climb to 3200 then right turn direct SABON LOM/I-JMS 6.4 DME and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L

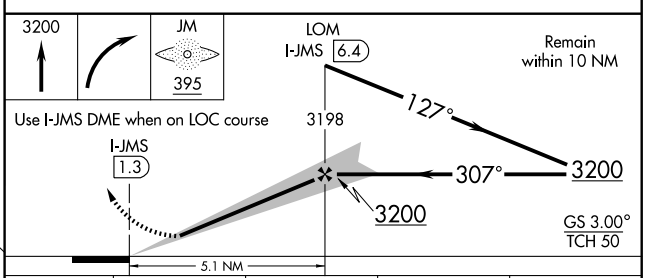


DME or ADF REQUIRED



MIRL Rwy 4-22 L
HIRL Rwy 13-31 L
REIL Rwys 4, 13, and 22 L

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42



CATEGORY	A	B	C	D
S-ILS 31	1698-½ 200 (200-½)			
S-LOC 31	1880-½ 385 (400-½)			1880-¾ 385 (400-¾)
CIRCLING	1960-1 462 (500-1)		1960-1½ 462 (500-1½)	2060-2 562 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

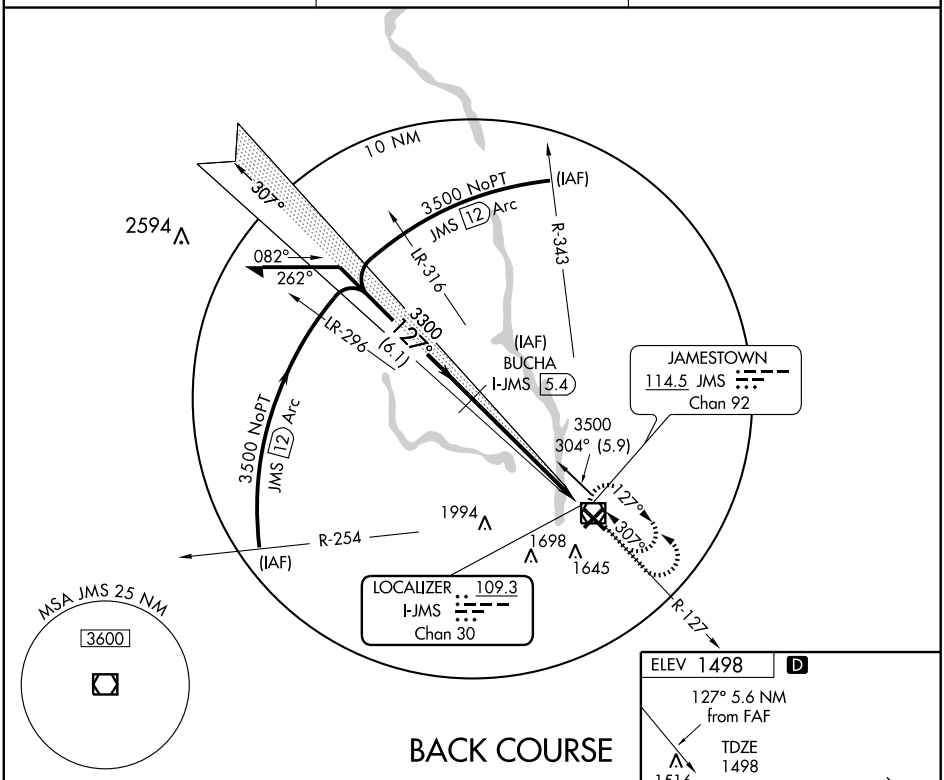
LOC/DME I-JMS	APP CRS	Rwy ldg	6502
109.3	127°	TDZE	1498
Chan 30		Apt Elev	1498

LOC/DME BC RWY 13
JAMESTOWN RGNL (JMS)

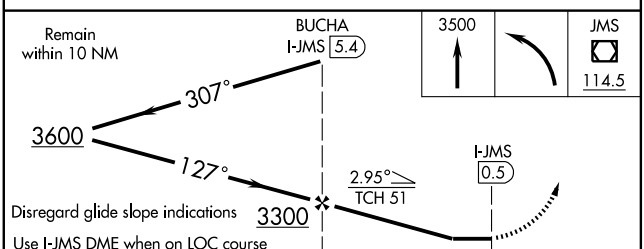
NA

MISSED APPROACH: Climb to 3500 then left turn direct JMS VOR/DME and hold.

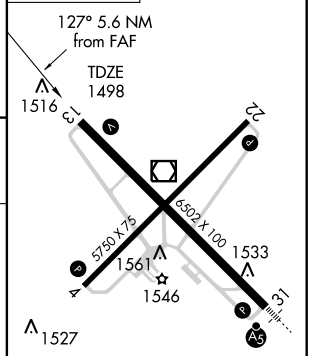
ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L



BACK COURSE



CATEGORY	A	B	C	D
S-13	1860-1 362 (400-1)			1860-1¼ 362 (400-1¼)
CIRCLING	1960-1 462 (500-1)		1960-1½ 462 (500-1½)	2060-2 562 (600-2)



REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

NDB RWY 31
JAMESTOWN RGNL (JMS)

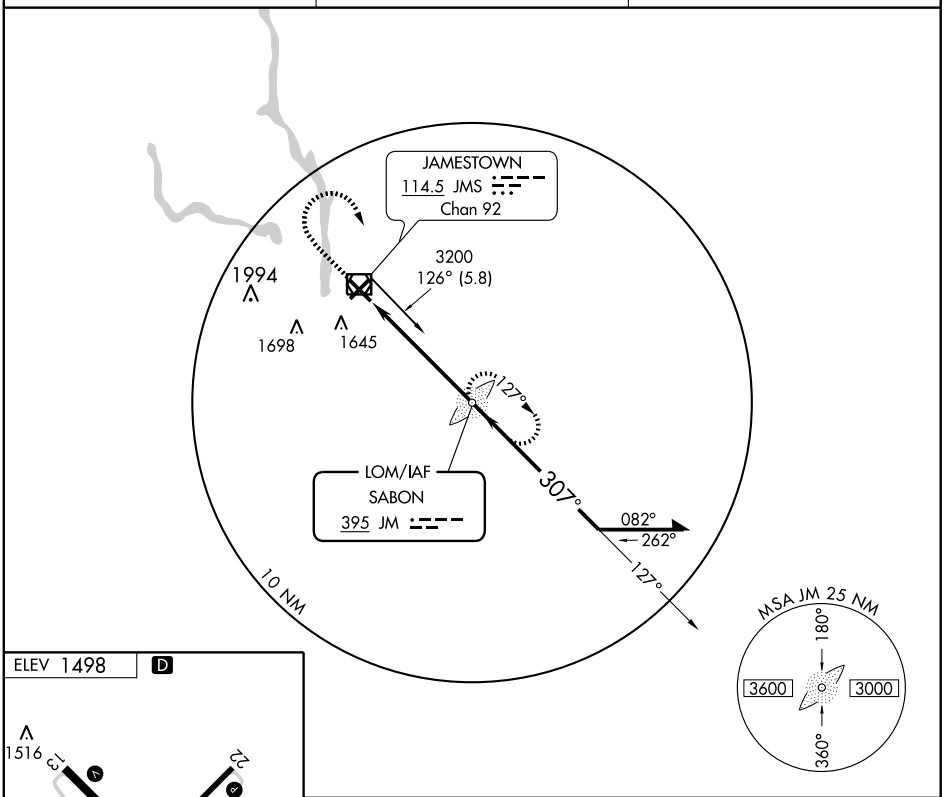
LOM JM	APP CRS	Rwy ldg / TDZE / Apt Elev
395	307°	6502 / 1495 / 1498

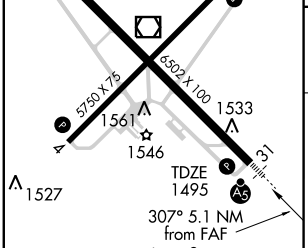
T
NA

MALSR

MISSED APPROACH: Climb to 3200 then right turn direct JM LOM and hold.

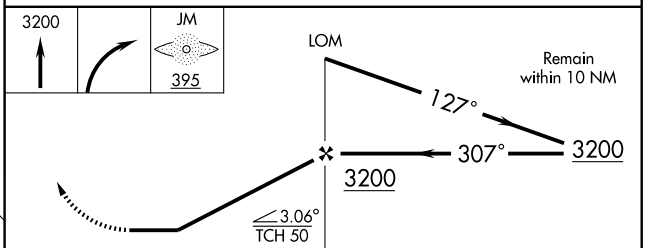
ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L





REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42



CATEGORY	A	B	C	D
S-31	1940-¾ 445 (500-¾)			1940-1¼ 445 (500-1¼)
CIRCLING	1960-1 462 (500-1)		1960-1½ 462 (500-1½)	2060-2 562 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

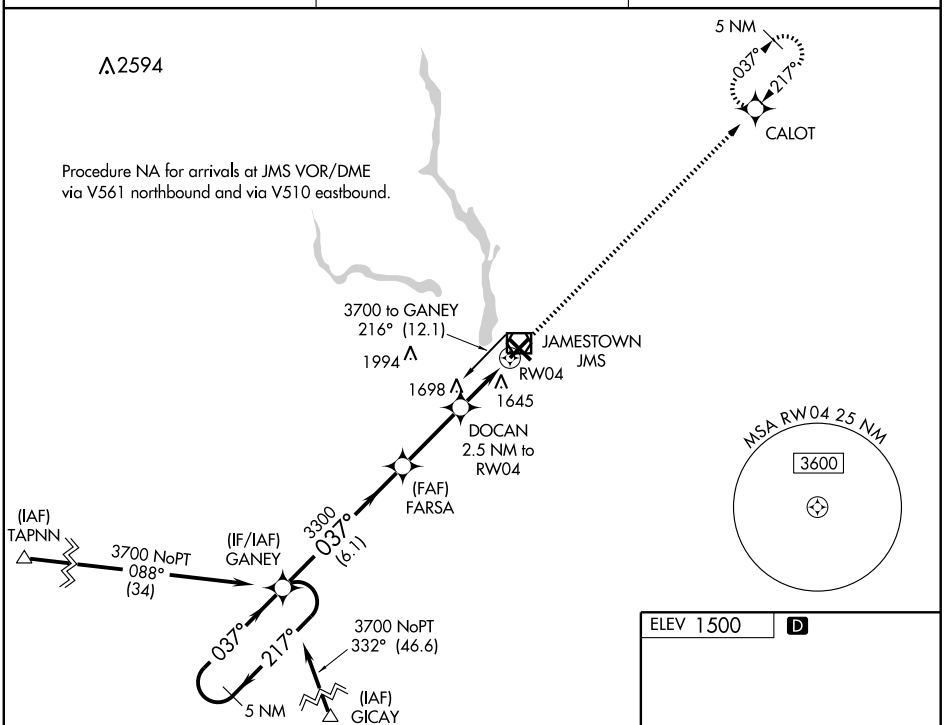
WAAS CH **97505** **W04A**	APP CRS **037°**	Rwy ldg **5750** TDZE **1496** Apt Elev **1500**

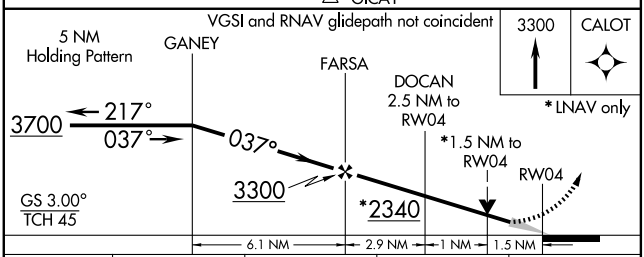
RNAV (GPS) RWY 4
JAMESTOWN RGNL (JMS)

T Baro-VNAV NA when using Devils Lake altimeter setting.
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).
W DME/DME RNP-0.3 NA. VDP NA when using Devils Lake altimeter setting. If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3300 direct CALOT and hold.

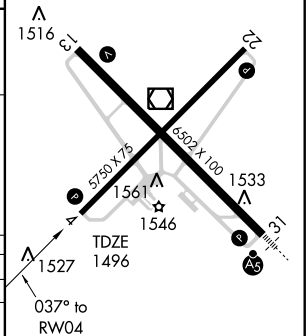
ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	**124.2 270.3**	**123.0** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1746-1 250 (300-1)			
LNAV/VNAV DA	1930-1½ 434 (500-1½)			
LNAV MDA	2000-1 504 (500-1)		2000-1½ 504 (500-1½)	
CIRCLING	2000-1 500 (500-1)		2000-1½ 500 (500-1½)	2060-2 560 (600-2)

ELEV 1500 D



REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

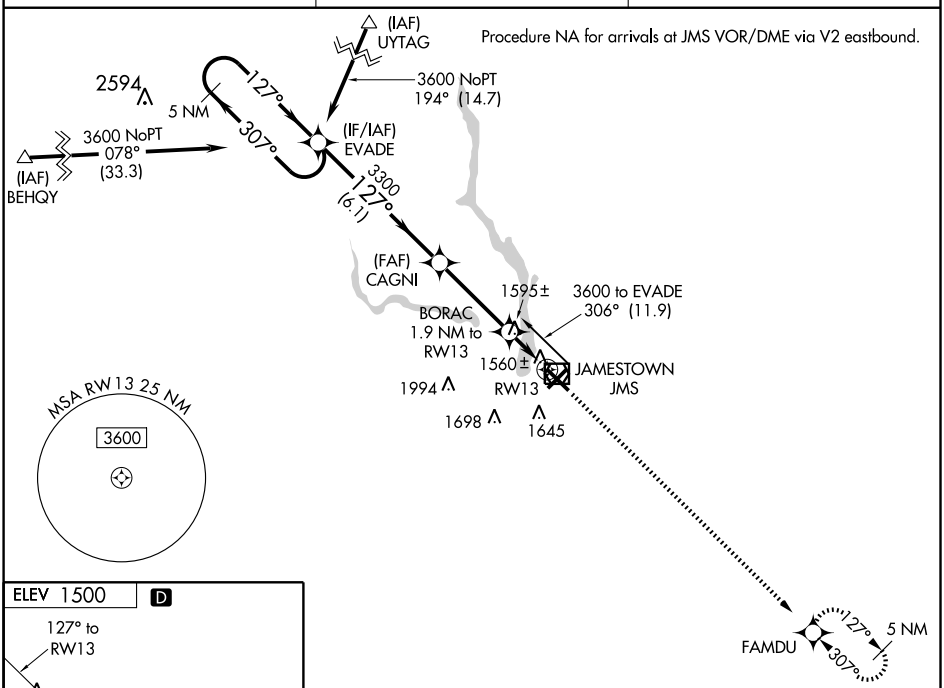
WAAS CH 65805 W13A	APP CRS 127°	Rwy ldg 6502 TDZE 1500 Apt Elev 1500

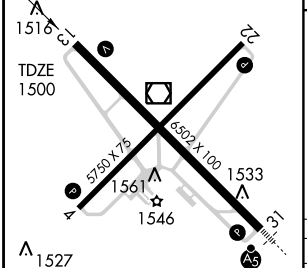
RNAV (GPS) RWY 13
JAMESTOWN RGNL (JMS)

Baro-VNAV NA when using Devils Lake altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
VDP NA when using Devils Lake altimeter setting.
If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

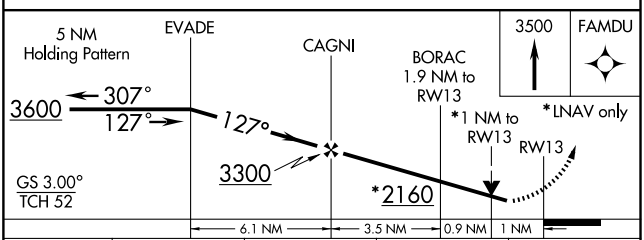
MISSED APPROACH: Climb to 3500 direct FAMDU and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L





REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L



CATEGORY	A	B	C	D
LPV DA	1787-1 287 (300-1)			
LNAV/VNAV DA	1820-1 320 (400-1)			
LNAV MDA	1860-1 360 (400-1)			1860-1¼ 360 (400-1¼)
CIRCLING	1960-1 460 (500-1)		1960-1½ 460 (500-1½)	2060-2 560 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

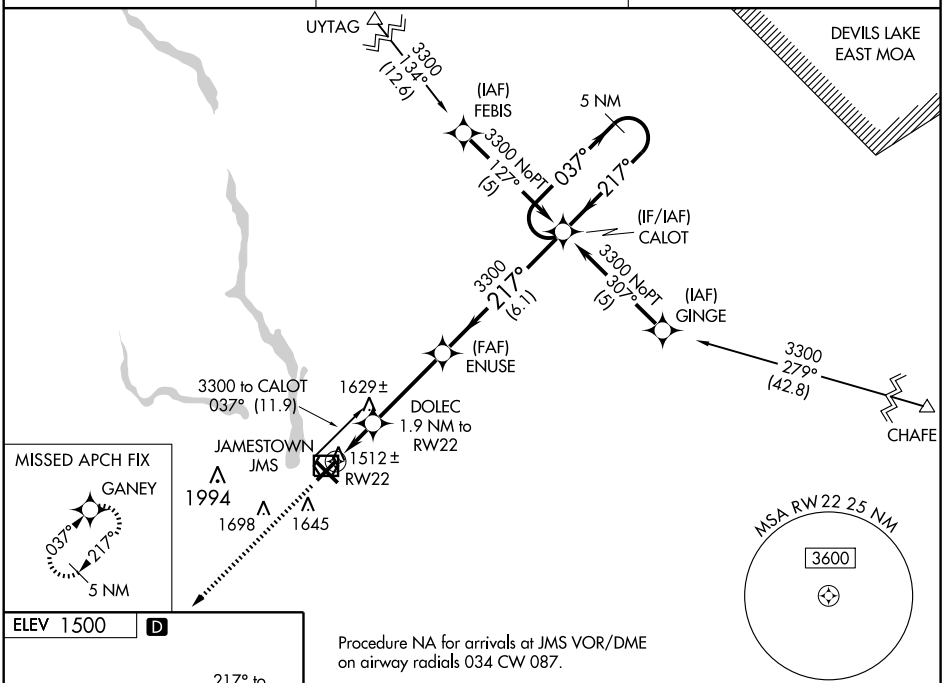
WAAS CH 70505 W22A	APP CRS 217°	Rwy ldg 5750 TDZE 1500 Apt Elev 1500

RNAV (GPS) RWY 22
JAMESTOWN RGNL (JMS)

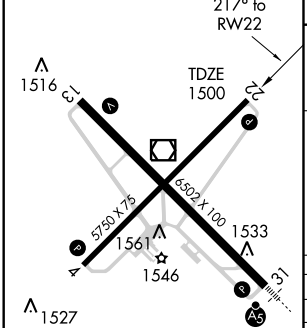
T Baro-VNAV NA when using Devils Lake altimeter setting.
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).
W DME/DME RNP- 0.3 NA. VDP NA when using Devils Lake altimeter setting. If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3700 direct GANEY and hold.

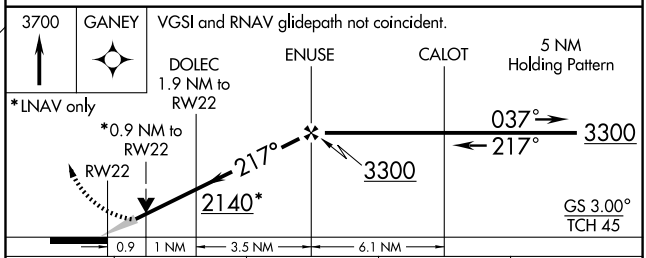
ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L



Procedure NA for arrivals at JMS VOR/DME on airway radials 034 CW 087.



REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L



CATEGORY	A	B	C	D
LPV DA	1750-1 250 (300-1)			
LNAV/VNAV DA	1772-1 272 (300-1)			
LNAV MDA	1800-1 300 (300-1)			
CIRCLING	1960-1 460 (500-1)		1960-1½ 460 (500-1½)	2060-2 560 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH **66014** **W31A**	APP CRS **307°**	Rwy ldg **6502** TDZE **1498** Apt Elev **1500**

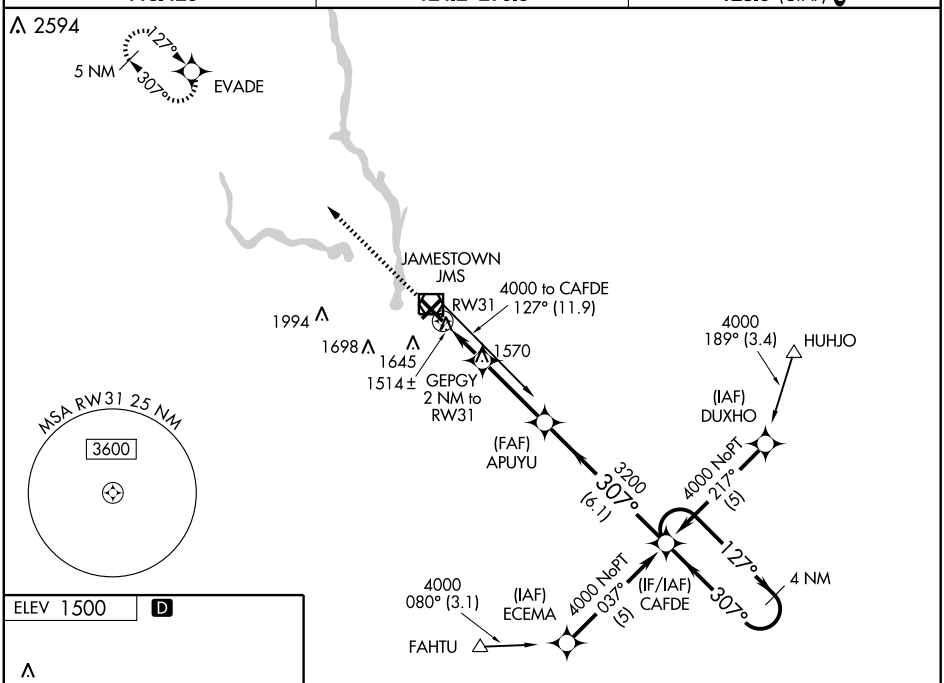
RNAV (GPS) RWY 31
JAMESTOWN RGNL (JMS)

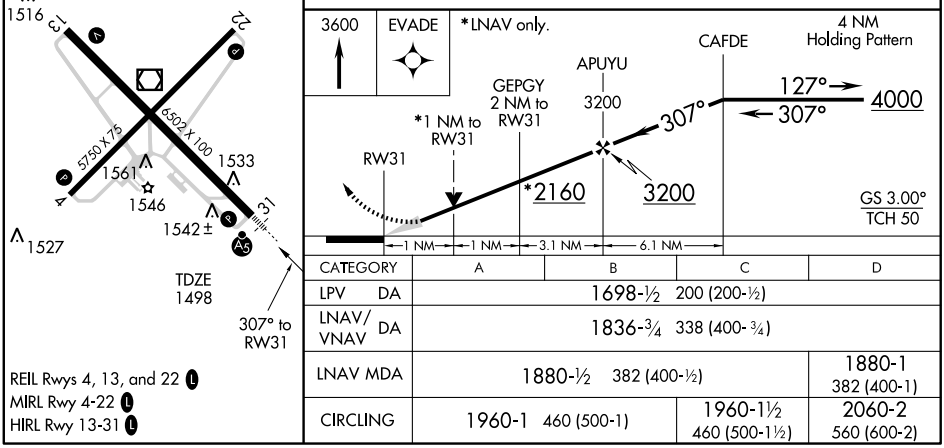
For inoperative MALSR, increase LNAV Cat D visibility to 1¼ mile. Baro-VNAV NA when using Devils Lake altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Devils Lake altimeter setting and increase all DA 172 feet, all MDA 180 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, LNAV Cat C visibility ½ mile, Cat D visibility ¼ mile, Circling Cats C and D visibility ¼ mile. VDP NA with Devils Lake altimeter setting.
For inoperative MALSR when using Devils Lake altimeter setting increase LPV all Cats visibility to 1¼ mile. Inoperative table does not apply to LNAV Cats C and D when using Devils Lake altimeter setting.

MALSR

MISSED APPROACH: Climb to 3600 direct EVADE and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	**124.2 270.3**	**123.0** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1698-½ 200 (200-½)			
LNAV/VNAV DA	1836-¾ 338 (400-¾)			
LNAV MDA	1880-½ 382 (400-½)			1880-1 382 (400-1)
CIRCLING	1960-1 460 (500-1)		1960-1½ 460 (500-1½)	2060-2 560 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VOR/DME JMS	APP CRS	Rwy ldg	6502
114.5	117°	TDZE	1500
Chan 92		Apt Elev	1500

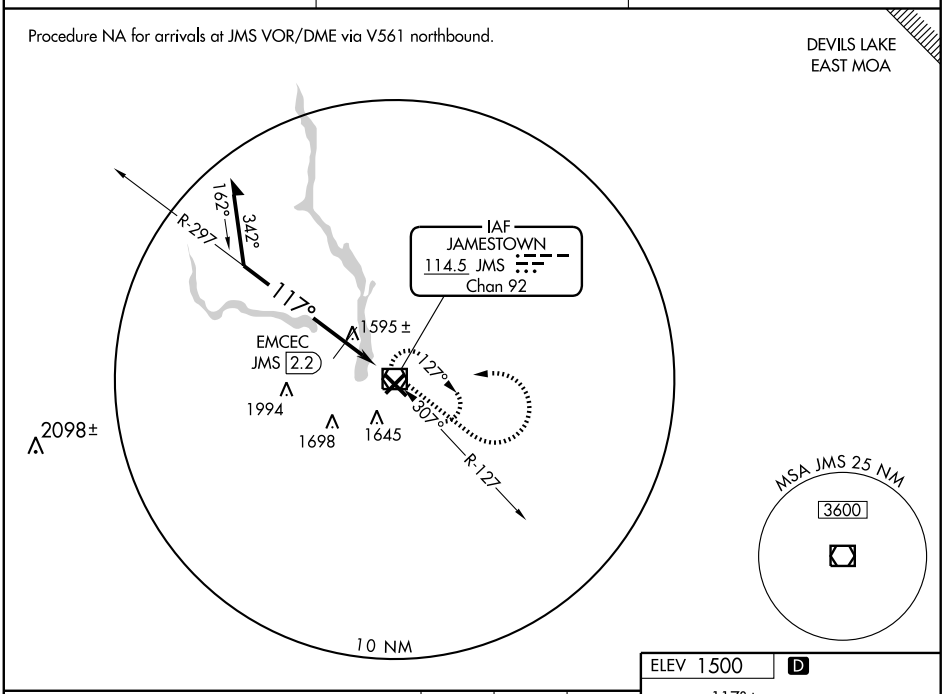
VOR RWY 13
JAMESTOWN RGNL (JMS)

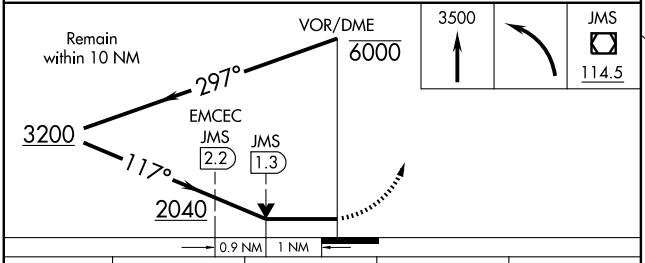
If local altimeter setting not received, procedure NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3500 then left turn direct JMS VOR/DME and hold.

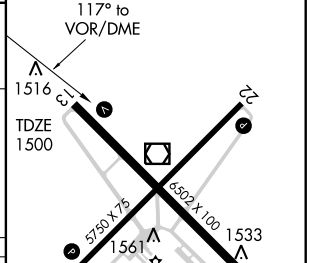
ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L

Procedure NA for arrivals at JMS VOR/DME via V561 northbound.





CATEGORY	A	B	C	D
S-13	2040-1	540 (600-1)	2040-1½ 540 (600-1½)	2040-1¾ 540 (600-1¾)
CIRCLING	2040-1	540 (600-1)	2040-1½ 540 (600-1½)	2060-2 560 (600-2)
EMCEC FIX MINIMUMS				
S-13	1860-1	360 (400-1)		1860-1¼ 360 (400-1¼)
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)



REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

VOR/DME JMS	APP CRS	Rwy ldg	6502
114.5	311°	TDZE	1498
Chan 92		Apt Elev	1500

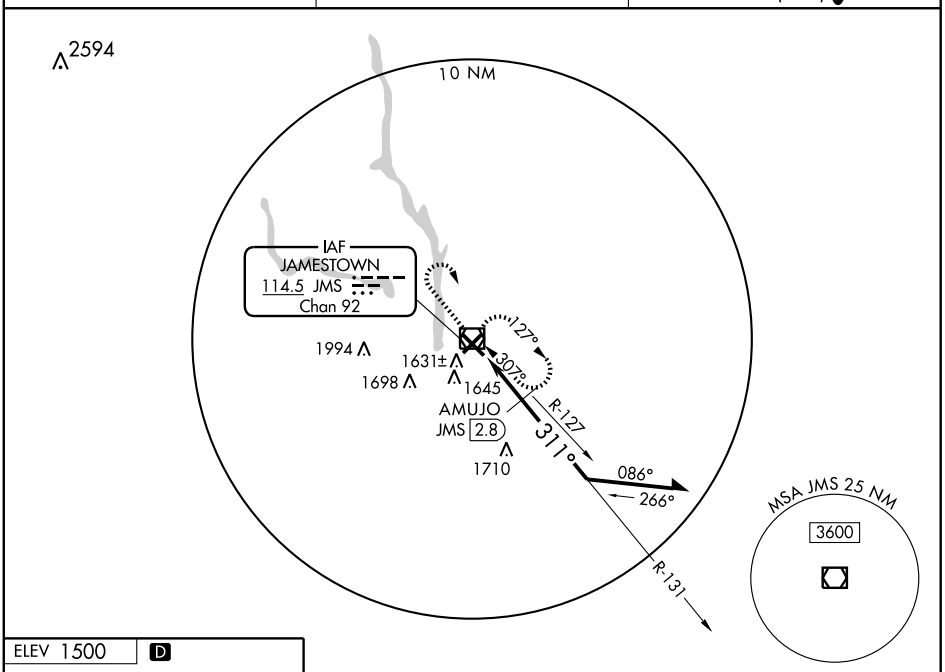
VOR RWY 31
JAMESTOWN RGNL (JMS)

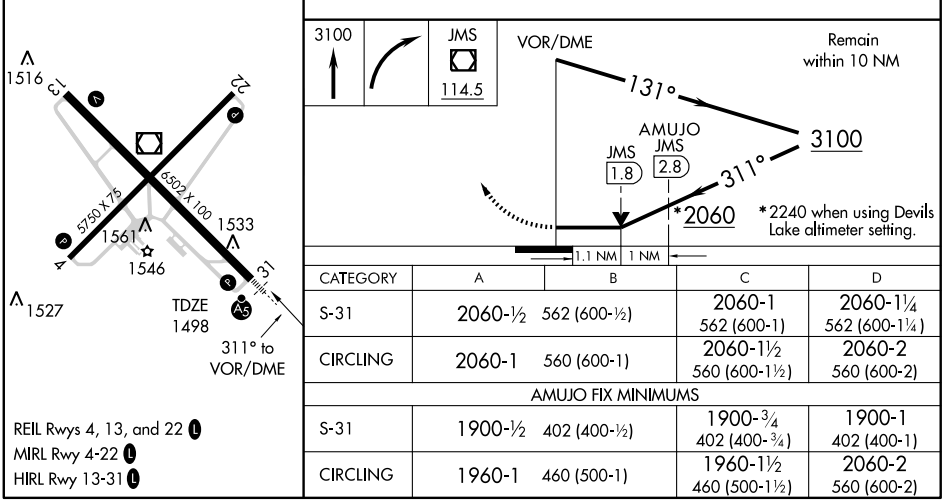
For inoperative MALSR, increase AMUJO FIX minimums S-31 Cat D visibility to 1¼ mile. VDP NA with Devils Lake altimeter setting. When local altimeter setting not received, use Devils Lake altimeter setting and increase all MDA 180 feet, increase S-31 Cats C and D visibility ¾ mile, Circling Cats C and D visibility ½ mile, increase AMUJO FIX minimums S-31 Cat C and Circling Cats C and D visibility ¼ mile.

MALSR

MISSED APPROACH: Climb to 3100 then right turn direct JMS VOR/DME and hold.

ASOS	MINNEAPOLIS CENTER	UNICOM
118.425	124.2 270.3	123.0 (CTAF) L



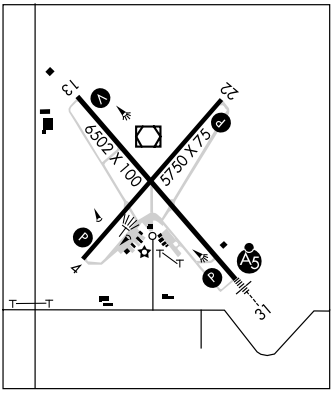


REIL Rwys 4, 13, and 22 L
MIRL Rwy 4-22 L
HIRL Rwy 13-31 L

CATEGORY	A	B	C	D
S-31	2060-½ 562 (600-½)		2060-1 562 (600-1)	2060-1¼ 562 (600-1¼)
CIRCLING	2060-1 560 (600-1)		2060-1½ 560 (600-1½)	2060-2 560 (600-2)
AMUJO FIX MINIMUMS				
S-31	1900-½ 402 (400-½)		1900-¾ 402 (400-¾)	1900-1 402 (400-1)
CIRCLING	1960-1 460 (500-1)		1960-1½ 460 (500-1½)	2060-2 560 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

JAMESTOWN RGNL (JMS) 2 NE UTC−6(−5DT) N46°55.78′ W98°40.69′ **TWIN CITIES**
1500 B S4 **FUEL** 100LL, JET A OX 3 Class I, ARFF Index A NOTAM FILE JMS **H–2I, L–14G**
RWY 13–31: H6502X100 (ASPH–GRVD) S–130, D–160, 2S–175, 2D–250 HIRL **IAP**
RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 51′. Tree.
RWY 31: MALSR. PAPI(P4L)—GA 3.0° TCH 50′.
RWY 04–22: H5750X75 (ASPH) S–85, D–103, 2S–131, 2D–162 MIRL
RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 20′. Pole.
RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 20′.



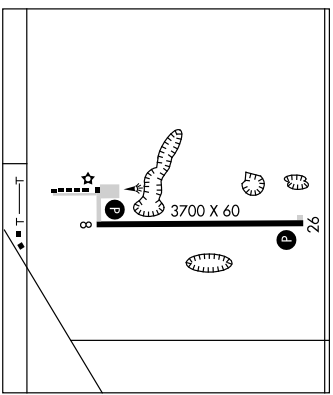
RUNWAY DECLARED DISTANCE INFORMATION

RWY 04:	TORA–5750	TODA–5750	ASDA–5750	LDA–5750
RWY 13:	TORA–6502	TODA–6502	ASDA–6502	LDA–6502
RWY 22:	TORA–5750	TODA–5750	ASDA–5750	LDA–5750
RWY 31:	TORA–6502	TODA–6502	ASDA–6502	LDA–6502

AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. For attendant after hrs, call 701–952–1515. Fuel 100LL avbl 24 hrs with credit card. 24 hr pilot lounge avbl. Birds on and invof arpt. 48 hrs PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 701–252–0224/701–252–6466. Air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arrival/departure times without prior coordination with arpt manager and confirmation that ARFF is avbl prior to landing or takeoff. Rwy 13 VASI restricted to +/- 8° either side of centerline. ACTIVATE MIRL Rwy 04–22, HIRL Rwy 13–31, MALSR Rwy 31, VASI Rwy 13, REIL Rwy 13, Rwy 04, and Rwy 22, and PAPI Rwy 04, Rwy 22 and Rwy 31—CTAF.
WEATHER DATA SOURCES: ASOS 118.425 (701) 251–9002.
HIWAS 114.5 JMS.
COMMUNICATIONS: CTAF/UNICOM 123.0
RCO 123.6 122.2 (GRAND FORKS RADIO)
MINNEAPOLIS CENTER APP/DEP CON 124.2
RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.
(L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ at fld. 1493/10E. **HIWAS.**
SABON NDB (LOM) 395 JM N46°51.77′ W98°34.84′ 307° 5.7 NM to fld.
ILS/DME 109.3 I–JMS Chan 30 Rwy 31 Class IE. LOM SABON NDB. ILS unmonitored.

KENIE N47°00.56′ W96°48.91′ NOTAM FILE FAR. **TWIN CITIES**
NDB (HW/LOM) 365 AA 174° 5.3 NM to Hector Intl. **L–14G**

KENMARE MUNI (7K5) 1 SE UTC−6(−5DT) N48°40.06′ W102°02.86′ **BILLINGS**
1962 B **FUEL** 100LL NOTAM FILE GFK **L–14F**
RWY 08–26: H3700X60 (ASPH) S–12 MIRL **IAP**
RWY 08: PAPI(P2L)–GA 3.0° TCH 25′. Pole.
RWY 26: PAPI(P2L)–GA 3.0° TCH 25′. Road.

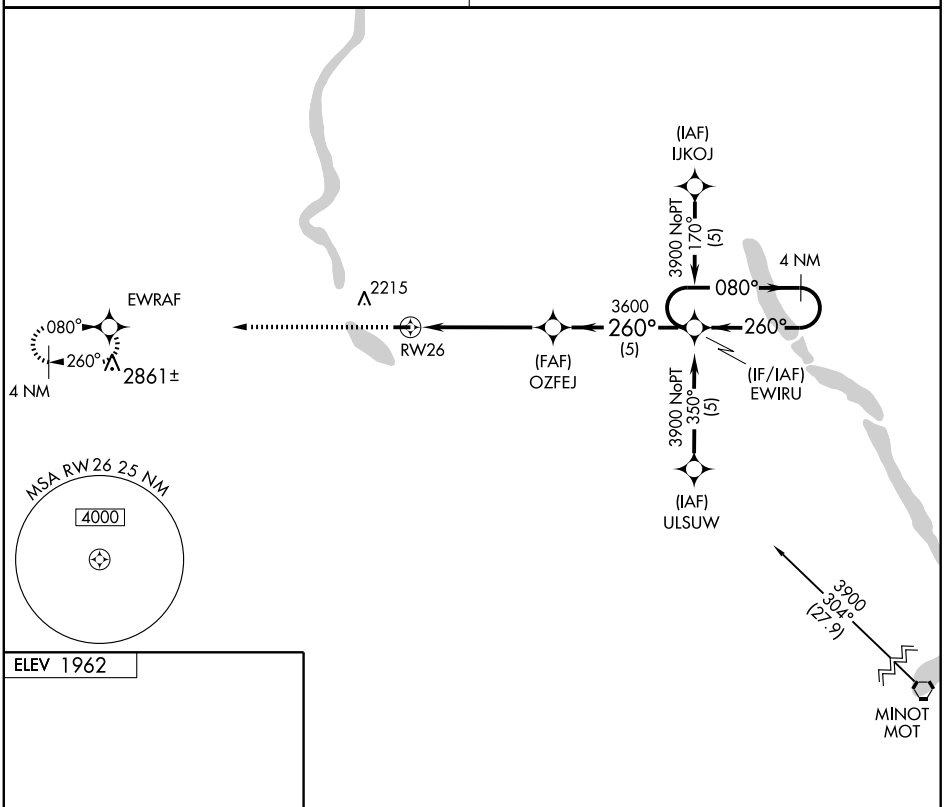


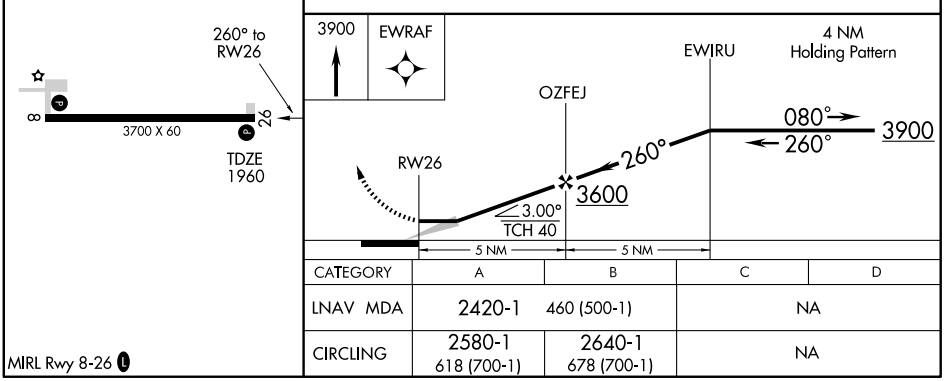
AIRPORT REMARKS: Unattended. 24 hr self svc fuel avbl with credit card. Confirm winter conditions and snow removal with arpt manager 701–385–4029. Waterfowl on or invof arpt. Wildlife refuge located 3500′ west. ACTIVATE MIRL Rwy 08–26 and PAPI Rwy 08 and Rwy 26—CTAF.
COMMUNICATIONS: CTAF 122.8
Ⓡ **MINOT APP/DEP CON** 119.6 (Opr 24 hrs from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡), other hrs ctc **MINNEAPOLIS CENTER APP/DEP CON** 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLSTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 057° 72.4 NM to fld. 2372/12E.
HIWAS.

APP CRS	Rwy ldg	3700
260°	TDZE	1960
	Apt Elev	1962

RNAV (GPS) RWY 26
KENMARE MUNI (7K5)

▲NA Use Minot Intl altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 3900 direct EWRAF WP and hold.
MINOT APP CON★ 119.6 363.8	CTAF 122.8 Ⓛ





CATEGORY	A	B	C	D
LNAV MDA	2420-1	460 (500-1)	NA	
CIRCLING	2580-1 618 (700-1)	2640-1 678 (700-1)	NA	

MIRL Rwy 8-26 Ⓛ

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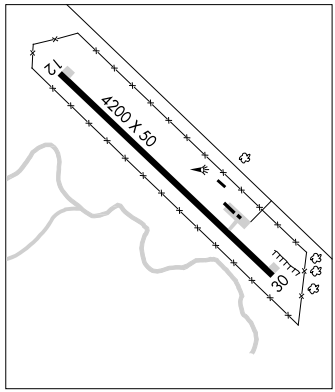
KILLDEER

WEYDAHL FLD (9Y1) 2 NW UTC−7(−6DT) N47°23.57′ W102°46.25′ **BILLINGS**
2256 NOTAM FILE GFK **L–13E, 14F**
RWY 12–30: H4200X50 (ASPH–AFSC) S–5 LIRL
RWY 12: Fence. **RWY 30:** Trees.
AIRPORT REMARKS: Unattended. To confirm irregular snow removal phone 701–764–5295/5678 or cell city maintenance 260–2317. Rwy 12–30 asph sfc poor due to numerous cracks and depressions with sfc limited to small acft below 5000 lbs gross weight. Rwy 12–30 NSTD markings. Rwy 12–30 LIRL OTS indef. ACTIVATE LIRL Rwy 12–30—CTAF.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.
DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 346° 32.0 NM to fld. 2520/14E. **HIWAS.**



KINDRED

HAMRY FLD (K74) 1 E UTC−6(−5DT) N46°38.92′ W96°59.94′ **TWIN CITIES**
947 S4 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 11–29: H3300X60 (CONC) MIRL **IAP**
RWY 11: PAPI(P2L)—GA 3.0° TCH 25′. **RWY 29:** PAPI(P2L)—GA 3.0° TCH 25′.
AIRPORT REMARKS: Attended Mon–Fri 1400–0030Z‡. For svc after hrs call 701–428–9990/3344. Self svc fuel avbl 24 hrs with credit card. Aircraft repair shop ctc 701–428–9954. Rwy 11–29 confirm with airport mgr for snow removal prior to use after snow storms. Deer on or invof arpt. Rwy 11–29 edges soft when wet. Rwy 11–29 ACTIVATE CTAF 122.9 for MIRL and PAPI after 0530Z‡.
COMMUNICATIONS: CTAF 122.9
Ⓡ **FARGO APP/DEP CON** 120.4
Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.35
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 215° 8.8 NM to fld. 910/9E.

KULM MUNI (D03) 1 NE UTC−6(−5DT) N46°18.41′ W098°56.33′ **TWIN CITIES**
1959 TPA—2759(800) NOTAM FILE GFK Not insp.
RWY 12–30: 2800X120 (TURF) LIRL
RWY 12: Trees. **RWY 30:** Tree.
AIRPORT REMARKS: Unattended. Waterfowl and deer on and invof arpt. Snow removal irregular. Confirm before use 701–647–2207/1950. Rwy 12 and Rwy 30 marked with white/black cones 400′ apart along rwy edges. Multiple 320′ wind turbine towers NE, E, SE, of rwy fm 1 NM and extending outward.
COMMUNICATIONS: CTAF 122.9

LAKOTA MUNI (5LØ) 1 SE UTC−6(−5DT) N48°01.74′ W98°19.55′ **TWIN CITIES**
1512 B NOTAM FILE GFK **L–14G**
RWY 15–33: H3500X60 (ASPH) S–12.5 MIRL
RWY 15: PAPI(P2L)—GA 3.0° TCH 25′. Road. **RWY 33:** PAPI(P2L)—GA 3.0° TCH 25′.
AIRPORT REMARKS: Unattended. Arpt CLOSED SS–SR and for night ops. Confirm snow removal and winter condition with city plant 701–247–2561/2704/3289 or 701–351–2775. 32′ p–line marked with orange balls ½ NM from Rwy 33 thld on centerline. MIRL Rwy 15–33 and PAPI Rwy 15 and Rwy 33 operate dusk–0600Z‡, after 0600Z‡ ACTIVATE CTAF.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 095° 24.1 NM to fld. 1448/7E.

RNAV (GPS) RWY 11
HAMRY FIELD (K74)

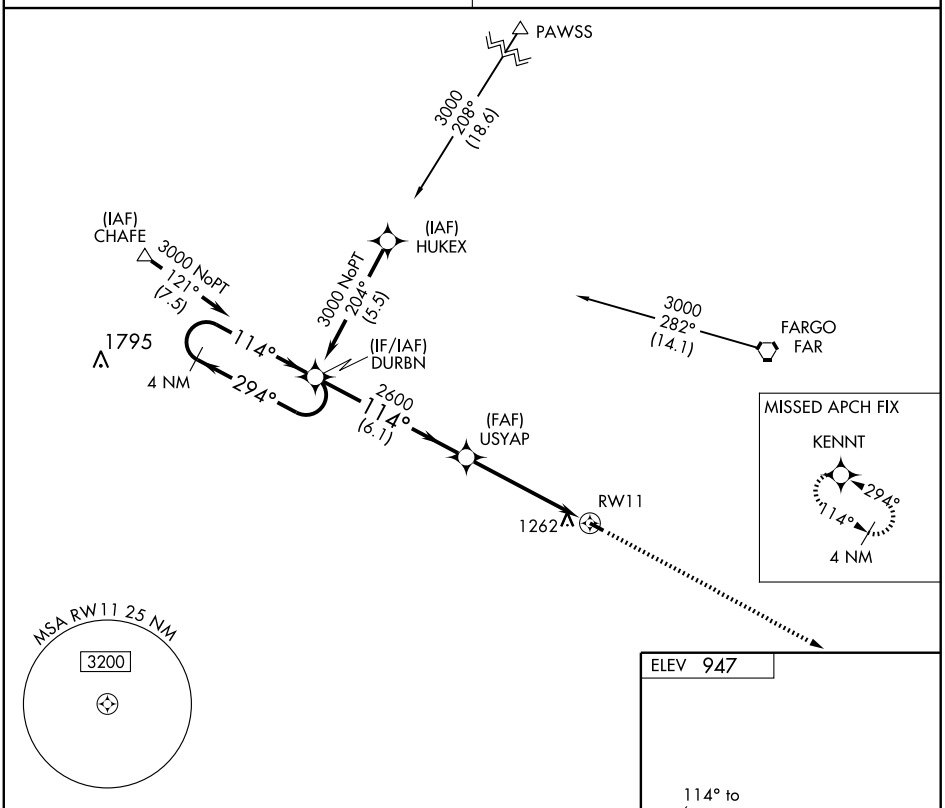
APP CRS	Rwy ldg	3300
114°	TDZE	947
	Apt Elev	947

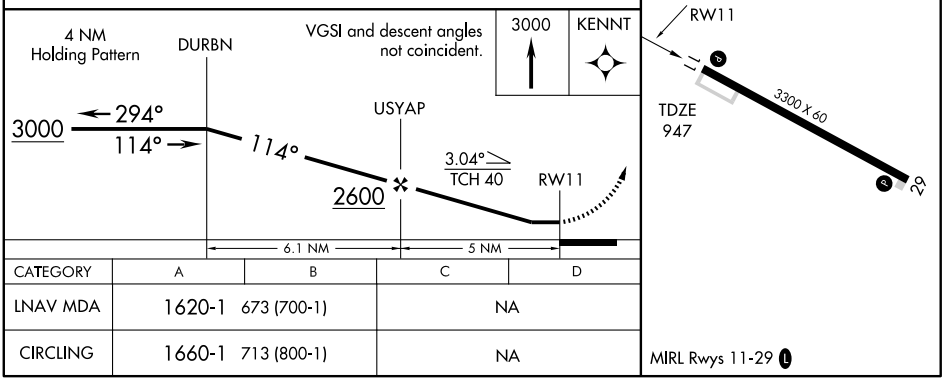
T
A NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Fargo altimeter setting; when not received use Moorhead altimeter setting.

MISSED APPROACH:
Climb to 3000 direct KENNT and hold.

FARGO APP CON	CTAF
120.4 377.15	122.9 L





CATEGORY	A	B	C	D
LNAV MDA	1620-1	673 (700-1)	NA	
CIRCLING	1660-1	713 (800-1)	NA	

MIRL Rwys 11-29 L

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NC-1, 21 OCT 2010 to 18 NOV 2010

RNAV (GPS) RWY 29
HAMRY FIELD (K74)

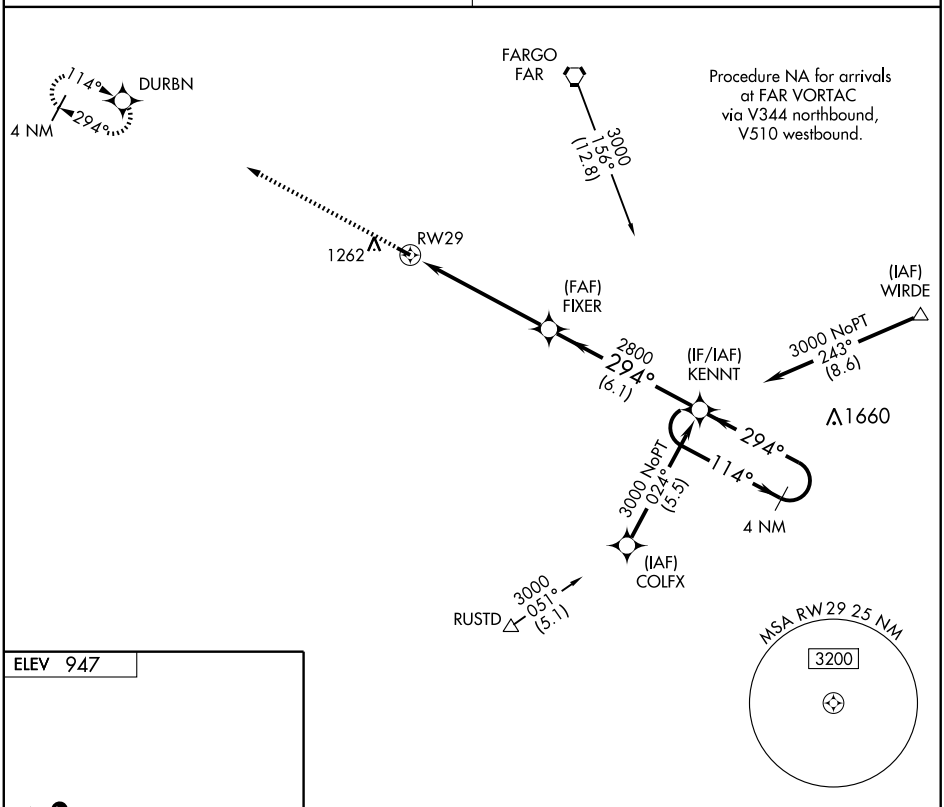
APP CRS	Rwy ldg	3300
294°	TDZE	947
	Apt Elev	947

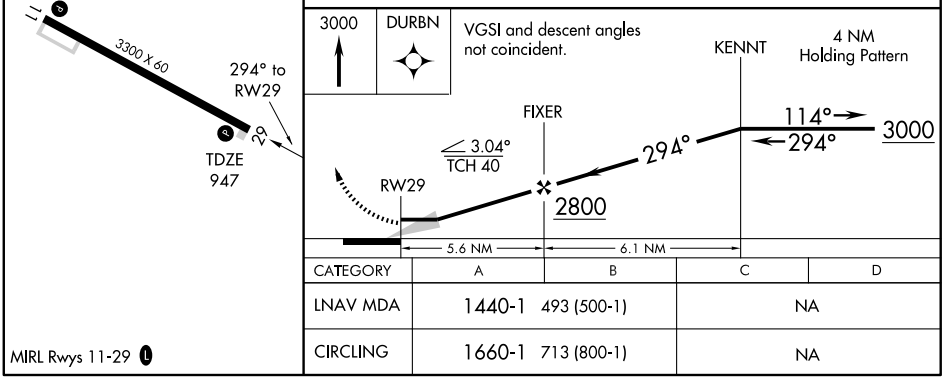
DME/DME RNP-0.3 NA.
Use Fargo altimeter setting; when not received use Moorhead altimeter setting.

NA

MISSED APPROACH:
Climb to 3000 direct DURBN and hold.

FARGO APP CON	CTAF
120.4 377.15	122.9 L





CATEGORY	A	B	C	D
LNAV MDA	1440-1 493 (500-1)		NA	
CIRCLING	1660-1 713 (800-1)		NA	

NC-1, 21 OCT 2010 to 18 NOV 2010

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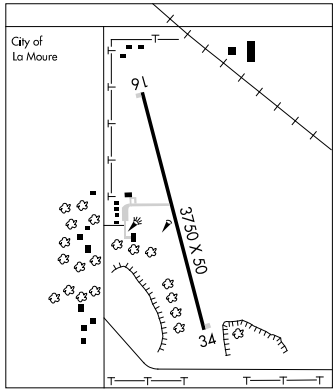
LA MOURE ROTT MUNI (4F9) 1 SE UTC−6(−5DT) N46°20.80′ W98°17.02′ **TWIN CITIES**
1310 NOTAM FILE GFK **L–14G**
RWY 16–34: H3750X50 (ASPH) LIRL (NSTD)
RWY 16: Bldg. **RWY 34:** Road.
AIRPORT REMARKS: Attended Oct–Apr on call, May–Sep dalgt hours. For attendant other times call 701–883–5047. For attendance Oct–Apr call 701–883–5047. Rwy 16–34 NSTD LIRL, has only green thld lgts. Rwy 16–34 LIRL only green thld lgts OTS indef. Confirm winter conditions and snow removal with arpt manager 701–883–5047 or 701–320–4189. Irrigator 15′ AGL 200′ east of north end of Rwy 16–34. ACTIVATE NSTD LIRL Rwy 16–34—CTAF.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.
JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 145° 38.8 NM to fld. 1493/10E. **HIWAS.**



LANGDON

ROBERTSON FLD (D55) 1 WSW UTC−6(−5DT) N48°45.19′ W98°23.62′ **TWIN CITIES**
1608 B **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 14–32: H3600X60 (ASPH) S–12.5 MIRL **IAP**
RWY 14: PAPI(P2L)—GA 3.0°TCH 25′. Trees. **RWY 32:** PAPI(P2L)—GA 3.0°TCH 25′. Road.
RWY 08–26: 2010X100 (TURF)
RWY 26: Road.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. For fuel and svc, ctc arpt manager on 701–256–5900/3259 or 3639–370-2076. For services after hours ctc arpt manager 701–256–5900/3259. Rwy 08–26 CLOSED winters due to lack of snow removal. Confirm winter conditions/snow removal with arpt manager at 701–256–5900/3259/3639 or 370–2003/2076 cell. Large birds on and invof arpt Apr–Nov. Rwy 26 +372′ twr–left; 11,000′ from thld; 3500′ right of extended centerline; apch ratio 29:1—also +192′ twr 6300′ from thld; apch ratio 32:1. Rwy 32 +80′ P–line 3600′ from thld; 800′ left of extended centerline; apch ratio 42:1. Noise sensitive area NW quadrant of fld, avoid overflight. Midfield N/S twy has reflectors, surface condition poor with potholes. ACTIVATE MIRL Rwy 14–32—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.225 (701) 256–2121.
COMMUNICATIONS: CTAF/UNICOM 122.8
MINNEAPOLIS CENTER APP/DEP CON 132.15
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 021° 43.6 NM to fld. 1448/7E.

LARIMORE MUNI (2L1) 1 W UTC−6(−5DT) N47°54.42′ W97°38.44′ **TWIN CITIES**
1130 NOTAM FILE GFK
RWY 12–30: H2800X50 (ASPH) S–4 LIRL
RWY 12: Trees. Rgt tfc. **RWY 30:** Thld dsplcd 200′. Road.
AIRPORT REMARKS: Attended Mon–Sat on call. Snow removal irregular Oct thru May. For conditions report ctc arpt manager at 701–343–2065 or cell 218–779–4244. Rwy 12–30 soft shoulders after rains and during spring thaw. Rwy 12 and 30 nstd dsplcd thld painted yellow; basic markings.
COMMUNICATIONS: CTAF 122.9

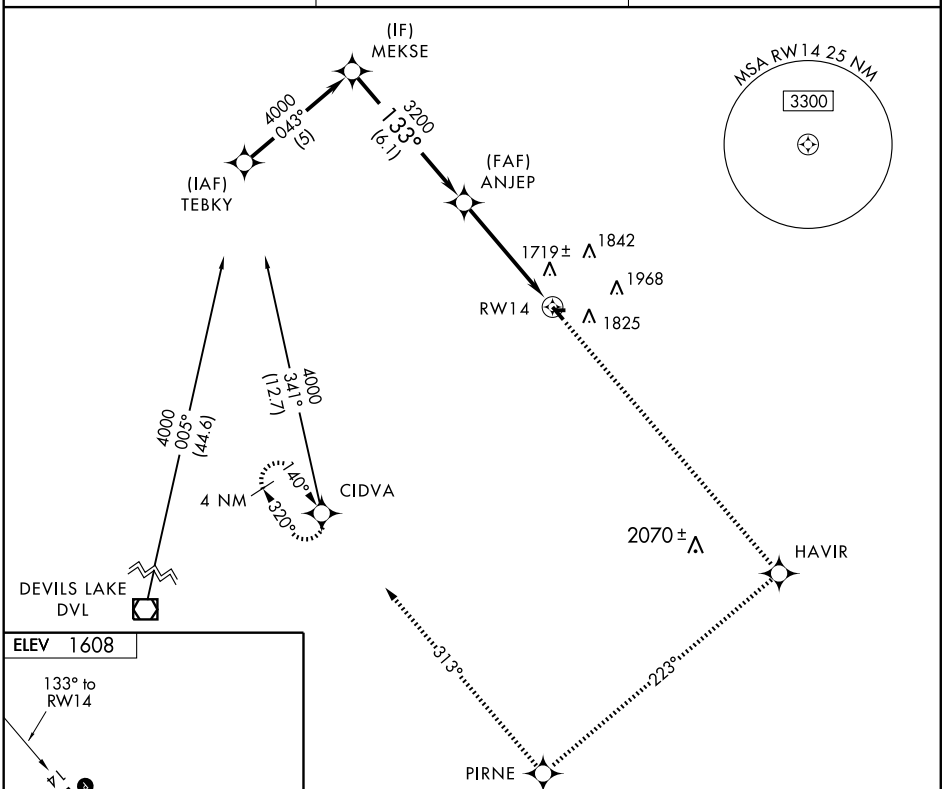
APP CRS	Rwy ldg	3600
133°	TDZE	1606
	Apt Elev	1608

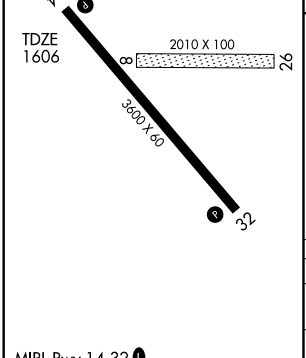
RNAV (GPS) RWY 14
LANGDON/ ROBERTSON FIELD (D55)

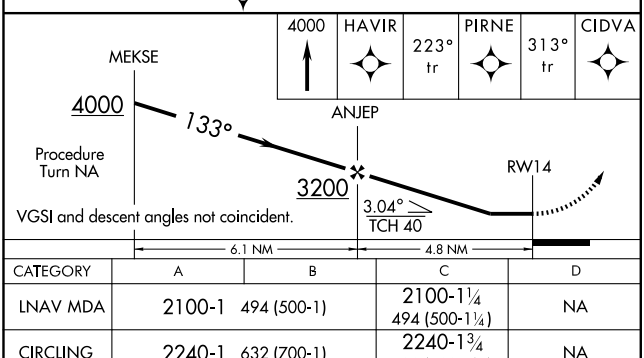
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received use Devils Lake altimeter setting and increase all MDA 140 feet, increase LNAV and Circling Cat C visibility ½ mile, and Circling Cat B visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct HAVIR and via track 223° to PIRNE and via track 313° to CIDVA and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.225	132.15 269.6	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	2100-1 494 (500-1)		2100-1¼ 494 (500-1¼)	NA
CIRCLING	2240-1 632 (700-1)		2240-1¾ 632 (700-1¾)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

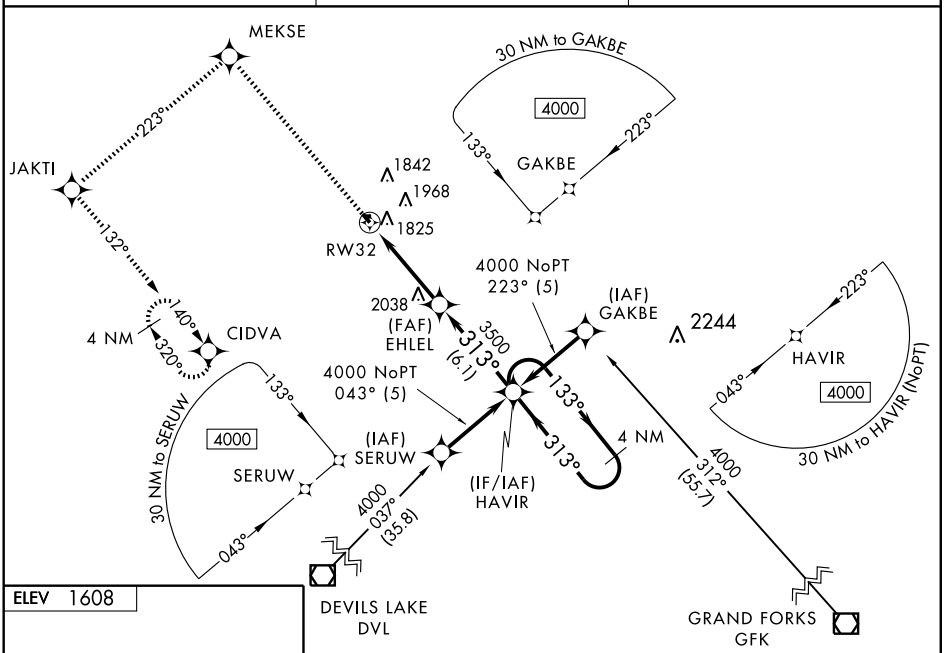
WAAS CH 50515 W32A	APP CRS 313°	Rwy ldg 3600 TDZE 1608 Apt Elev 1608

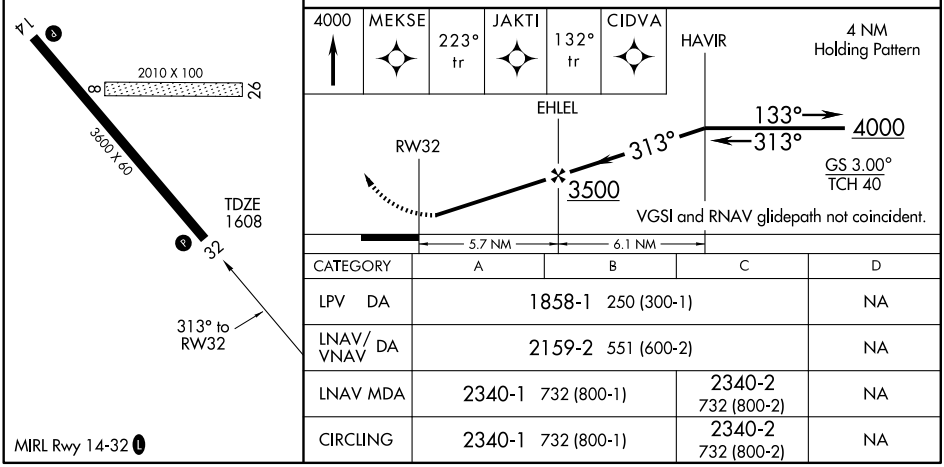
RNAV (GPS) RWY 32
LANGDON/ ROBERTSON FIELD (D55)

Baro-VNAV NA when using Devils Lake altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received use Devils Lake altimeter setting and increase all DA 122 feet and all MDA 140 feet, increase LPV all Cats, LNAV and Circling Cat B visibility ¼ mile and LNAV/VNAV all Cats, LNAV and Circling Cat C visibility ½ mile.

MISSED APPROACH: Climb to 4000 direct MEKSE and via track 223° to JAKTI and via track 132° to CIDVA and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.225	132.15 269.6	122.8 (CTAF)





CATEGORY	A	B	C	D
LPV DA	1858-1 250 (300-1)			NA
LNAV/VNAV DA	2159-2 551 (600-2)			NA
LNAV MDA	2340-1 732 (800-1)		2340-2 732 (800-2)	NA
CIRCLING	2340-1 732 (800-1)		2340-2 732 (800-2)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

MADDOCK MUNI (6D3) 1 N UTC−6(−5DT) N47°58.67′ W99°31.62′ **TWIN CITIES**

1600 **FUEL** 100LL NOTAM FILE GFK

RWY 12–30: 3200X100 (TURF)

RWY 12: Road. **RWY 30:** Road.

AIRPORT REMARKS: Attended on call. For attendant call 701–438–2694. Deer and birds on or invof arpt. No snow removal, confirm arpt condition during winter months. Midfield E/W asph twy open to west side apron and hangar.

COMMUNICATIONS: CTAF 122.9

MANDAN MUNI (Y19) 4 S UTC−6(−5DT) N46°46.08′ W100°53.66′ **TWIN CITIES**

1944 B S4 **FUEL** 100LL NOTAM FILE GFK **L–14F**

RWY 13–31: H4399X75 (ASPH–AFSC) S–12.5 MIRL **IAP**

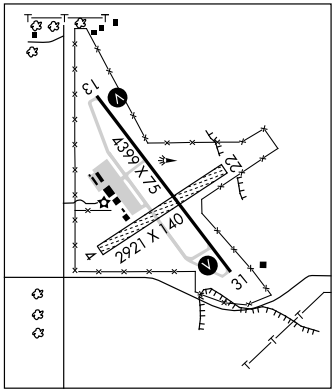
RWY 13: REIL. VASI(V2L)—GA 2.5° TCH 40′. Trees.

RWY 31: REIL. VASI(V2L)—GA 3.0° TCH 40′. P-line.

RWY 04–22: 2921X140 (TURF) MIRL 0.7% up NE

RWY 04: Road.

AIRPORT REMARKS: Attended Mon–Fri 1400–0200Z‡, Sat–Sun on call. For fuel 24 hour self svc with credit card or call 701–663–0669. Confirm snow removal after major winter storms with arpt manager 701–663–0669/3690 or 701–391–1394. Rwy 04–22 and Rwy 13–31 intersection transition across Rwy 04–22 uneven and be alert for high speed acft movements. 200′ tower located 9500′ NW of Rwy 13–31. 120′ tower located 5000′ SW of Rwy 04–22. MIRL Rwy 13–31 and Rwy 04–22 preset on med to increase ints ACTIVATE—CTAF. ACTIVATE VASI Rwy 13 and Rwy 31 and REIL Rwy 13 and Rwy 31—CTAF.



WEATHER DATA SOURCES: AWOS–3 118.225 (701) 663–0271.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ **BISMARCK APP/DEP CON** 124.2 (1200–0600Z‡)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 125.6 (0600–1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 260° 9.5 NM to fld. 1841/12E. **HIWAS.**

ASR (1200–0600Z‡)

MAYVILLE MUNI (D56) 1 S UTC−6(−5DT) N47°28.50′ W97°20.02′ **TWIN CITIES**

975 B NOTAM FILE GFK **L–14G**

RWY 17–35: H3200X56 (ASPH) S–4 LIRL

RWY 17: Road. **RWY 35:** P-line.

AIRPORT REMARKS: Attended Apr–Oct 1300–0100Z‡, Nov–Mar/Mon–Fri on call. For attendant call arpt manager at 701–786–2065. Migratory waterfowl on and invof arpt. Irregular snow removal confirm with city maintenance, call 701–786–2166. Arpt has numerous flight training ops daily from Grand Forks Intl arpt. Rwy 17 turn around caution broken asphalt ruts. Rwy 17–35 west side of rwy lgts OTS indef. Rwy 17–35 3050′ lgtd ngt time due to Rwy 17 thld lights 150′ inbound of thld. ACTIVATE LIRL Rwy 17–35—CATF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.

GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 183° 29.4 NM to fld. 841/9E. **HIWAS.**

McCLUSKY MUNI (7G2) 2 SW UTC−6(−5DT) N47°27.73′ W100°29.24′ **TWIN CITIES**

1900 B NOTAM FILE GFK

RWY 13–31: 3100X80 (TURF) LIRL

RWY 31: Trail.

AIRPORT REMARKS: Unattended. Confirm irregular snow removal and winter conditions with arpt manager prior to use; snow removal emerg only; call 701–363–2221. Rwy 13–31 has numerous grass clumps. Rwy 13–31 200′ stopway NW end which includes a 40′ asph run–up pad, 200′ stopway SE end which includes a 80′ by 50′ asph run–up pad. Twy lgtd on north side only. Rotating bcn OTS indef. Rwy 13–31 LIRL OTS indef. ACTIVATE LIRL Rwy 13–31—CTAF.

COMMUNICATIONS: CTAF 122.9

VOR/DME BIS 116.5 Chan 112	APP CRS 260°	Rwy ldg N/A TDZE N/A Apt Elev 1944

VOR or GPS-A
MANDAN MUNI (Y19)

NA
ASR

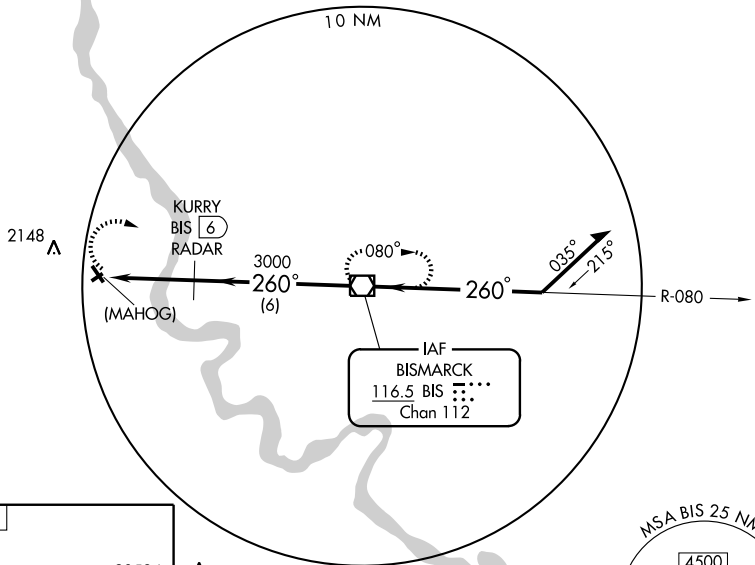
Use Bismarck altimeter setting.

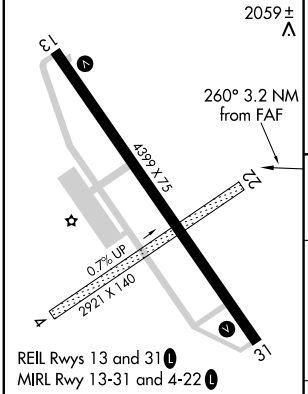
MISSED APPROACH: Climbing right turn to 3500 direct BIS VOR/DME and hold.

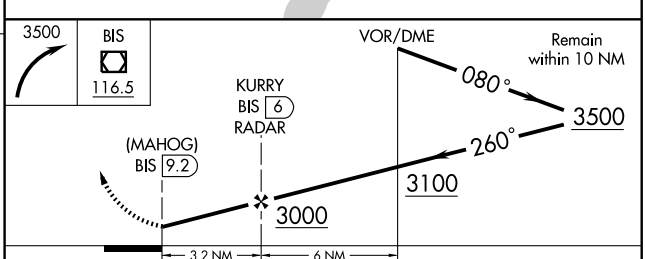
AWOS-3	BISMARCK APP CON ★	UNICOM
118.225	126.3 298.9	122.8 (CTAF) L

NoPT for arrivals on BIS VOR/DME airway radials 029 clockwise to 159.

DME or RADAR REQUIRED



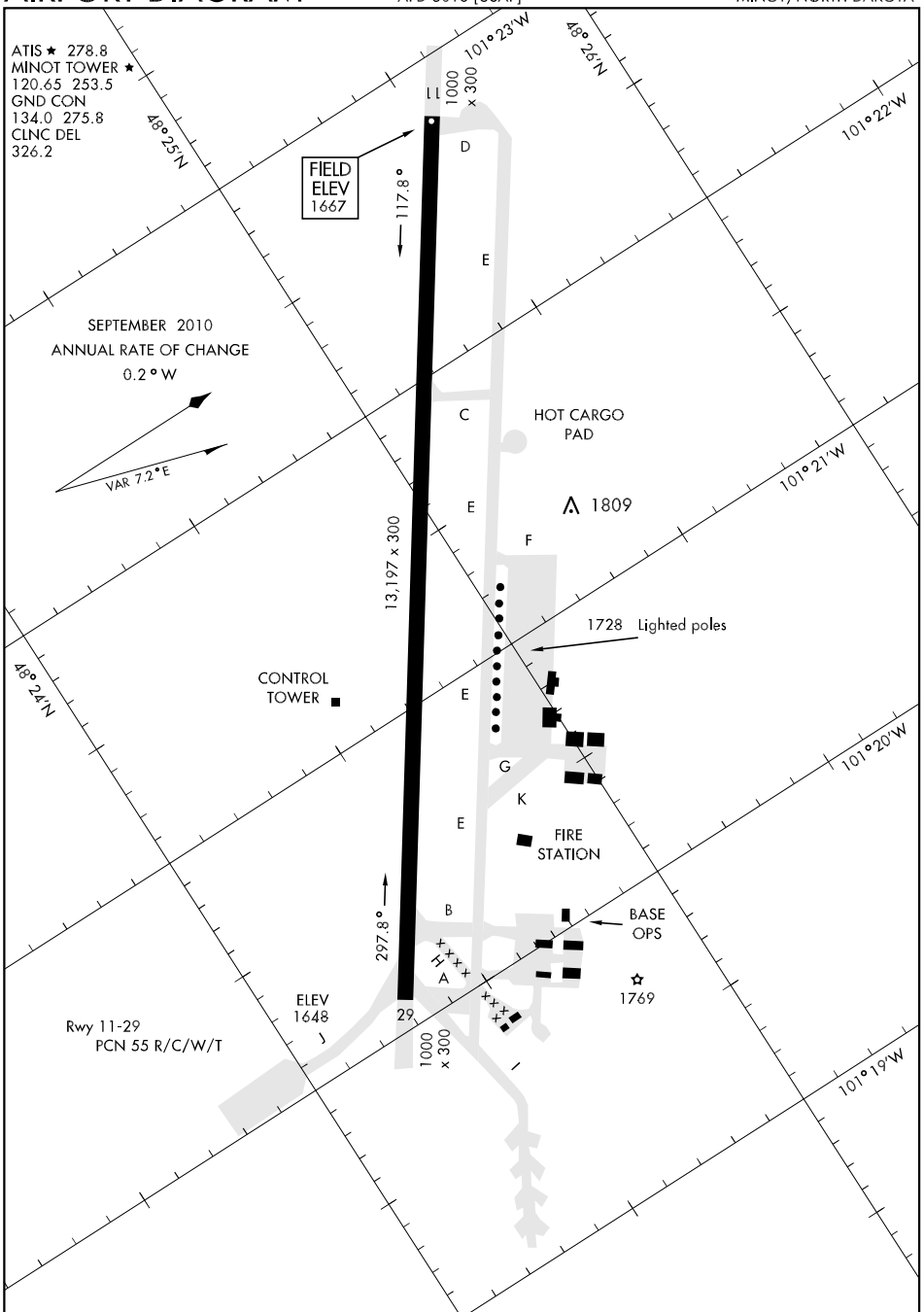




FAF to MAP 3.2 NM					
Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04

CATEGORY	A	B	C	D
CIRCLING	2420-1 478 (500-1)	2500-1 558 (600-1)	2500-1½ 558 (600-1½)	2500-2 558 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010



NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

MINOT AFB (MIB)(KMIB) AF 10 N UTC−6(−5DT) N48°24.95′ W101°21.48′ **BILLINGS**
1667 B TPA—See Remarks NOTAM FILE MIB Not insp. **H–2H, L–14F**
RWY 11–29: H13197X300 (CONC–GRVD) PCN 55 R/C/W/T HIRL **DIAP, AD**
RWY 11: ALSF1. PAPI(P4L)—GA 2.5°TCH 47′. **RWY 29:** ALSF1. PAPI(P4L)—GA 2.5°TCH 49′. Rgt tfc.
MILITARY SERVICE: Rotating bcn not visible from east. **JASU** 9(MD–3A) 2(M32A–60A) (MA–1A) **FUEL** J8, A, A+ **FLUID** SP PRESAIR De–Ice—expect possible delay weekends. LOX LHOX LHNIT **OIL** O–133–148 JOAP Rqr 2 hr prior notice weekends. **TRAN ALERT** Opr weekdays 1330–2330Z‡, clsd Sat and Sun.
MILITARY REMARKS: Opr Mon–Thu 1300–0500Z‡, Fri 1300–0400Z‡, clsd Sat, Sun and holidays. Clsd at 0400Z‡ prior holidays that falls on weekday. See FLIP AP/1 Supplementary Arpt Information. **RSTD** Fighter and acft larger than a DC 9 prohibited fm using skid row/DV ramp. PPR ctc afld management 72 hr prior notice DSN 453–2347, C701–723–2347. Acft with TT type ldg gear with max acft weight 477,000 pounds or more must ctc afld management prior to arrival or departure. PPR all acft including distinguished visitor, haz cargo and Aero-Medical Evacuation regardless of affiliation for notification and coordination purposes. All remain over night tran crews must ctc Command Post with billeting arrangements. All VIP acft ctc Command Post no later than 60 NM out. Avoid overflight blo 4200′ of airfield when clsd, excluding published instrument approach or departure procedure. **CAUTION**–Bird haz. Copter VFR opr in eff 24 hr in designated test area 2400′ and blo located north of rwy. Uncontrolled vehicle tfc on twy. High potential for hydroplaning first/last 3000′ of rwy when rwy sfc condition present. **TFC PAT** TPA–Rectangular 2900(1233), multi–engine jet rgt tfc Rwy 29; overhead 3400(1733), rgt break Rwy 11. **NS ABTMT** ACC quiet hr policy 0430–1200Z‡. **MISC** From the official METRO observation point, only south through west of the horizon is unobstructed. All other quadrants contain obstructions, restricting the capability to continually view and evaluate weather conditions. Workload permitting, ATC and METRO share significant changes in weather conditions, runway information, equipment status, and observed pilot reports. Arpt bcn not visible from the east. Afld Wx services element hrs are same as published afld hrs. Augmented wx observed when the following conditions observed or expected: tornado, funnel clouds, waterspout, hail greater than or equal to 1/2 inch, or volcanic ash.
COMMUNICATIONS: SFA **PTD** 372.2 **ATIS** 278.8 (Opr during local flying.)
Ⓡ **APP CON** 119.6 363.8 (Opr 24 hrs, from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡. See FLIP AP/1 Supplementary Arpt Remark.), other times ctc
MINNEAPOLIS CENTER APP CON 127.6 279.6
TOWER 120.65 236.6 253.5 (Mon–Thu 1300–0500Z‡, Fri 1300–0400Z‡, clsd Sat, Sun and holidays. Clsd at 0400Z‡ prior holidays that falls on weekday. See FLIP AP/1 Supplementary Arpt Remark.) **GND CON** 134.0 275.8 **CLNC DEL** 326.2
Ⓡ **DEP CON** 119.6 259.1 (Opr 24 hrs, from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡. See FLIP AP/1 Supplementary Arpt Remark.), other times ctc
MINNEAPOLIS CENTER APP/DEP CON 127.6 279.6
COMD POST (Call RAYMOND 12) 321.0 **PMSV METRO** 342.5 Full wx svc avbl, DSN 453–6385 C701–723–6385, other times DSN 576–9755/9702 C618–256–9755/9702.
AIRSPACE: CLASS D svc Mon–Thu 1300–0500Z‡, Fri 1300–0400Z‡, clsd Sat, Sun and holidays, other times CLASS G.
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
DEERING (H) TACAN Chan 96 MIB (114.9) N48°24.92′ W101°21.97′ at fld. 1668/10E. No NOTAM MP Wed 1530–1730Z‡ (1500/3+1).
ILS 109.9 I–MJW Rwy 11. Class IT. No NOTAM MP Mon 1500–1700Z‡, Thu 1300–1500Z‡.
ILS 109.9 I–MIB Rwy 29. Class IT. No NOTAM MP Mon 1500–1700Z‡, Thu 1300–1500Z‡ (1500/3+1).
ASR Opr 24 hrs from Mon 1300Z‡ thru Sat 0500Z‡ Sat and Sun 1300–0500Z‡. No NOTAM MP Tue, Fri 1230–1430Z‡ (1500/3+1).

COPTER TACAN 122°

TACAN MIB Chan 96	APCH CRS 122°	Rwy ldg 13,197 TDZE 1667 Arpt Elev 1667

AL-5013 [USAF]

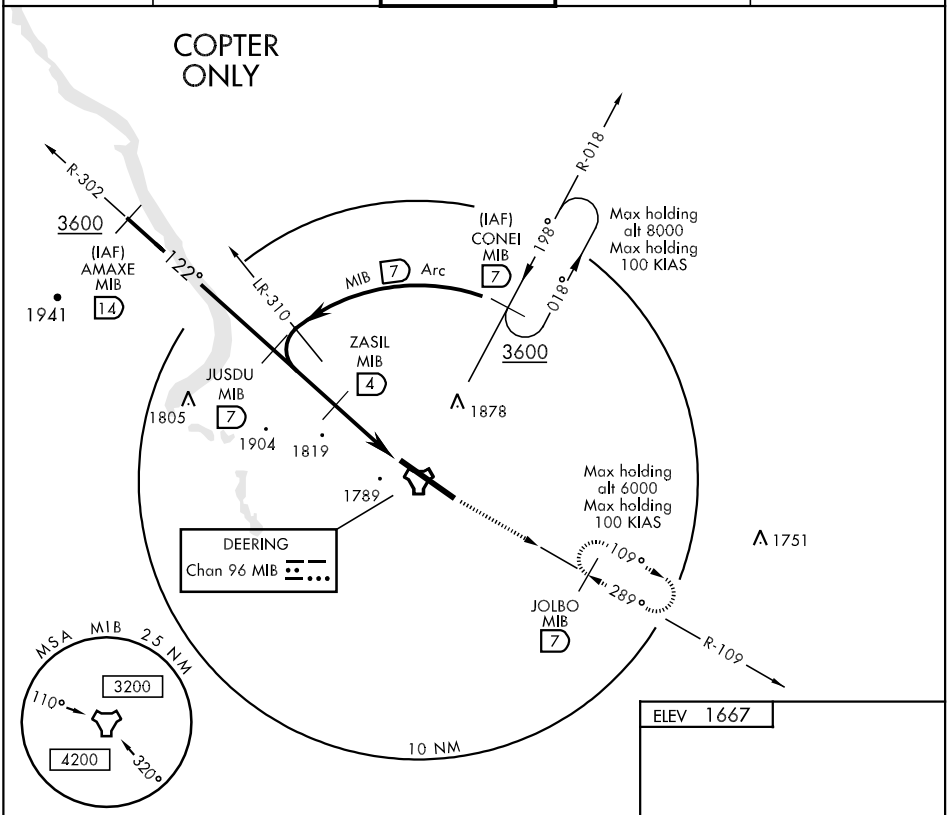
MINOT AFB (KMIB)

* When ALS inop, increase RVR to 24 and vis to ½ mile.

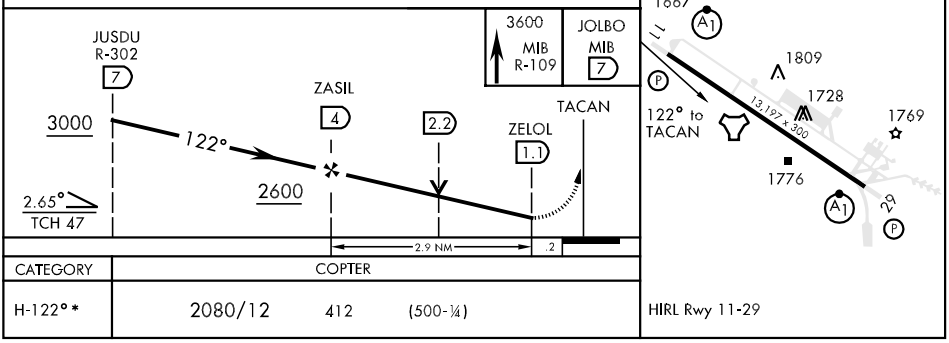
ALSF-1

MISSED APPROACH: Climb to 3600 via MIB R-109 direct JOLBO MIB 7 DME and hold.

ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2



EMERG SAFE ALT 100 NM 4800



CATEGORY	COPTER		
H-122° *	2080/12	412	(500-¼)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

COPTER TACAN 289°

TACAN MIB Chan 96	APCH CRS 289°	Rwy ldg 13,197 TDZE 1644 Arpt Elev 1667

AL-5013 [USAF]

MINOT AFB (KMIB)

* When ALS inop, increase RVR to 24 and vis to ½ mile.

ALSF-1

MISSED APPROACH: Climb to 3600 via MIB R-302 direct JUSDU MIB 7 DME and hold.

ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2

COPTER ONLY

R-018

R-302

Max holding alt 8000 Max holding 100 KIAS

198°

018°

(IAF) CONEI MIB 7 3600

1944

JUSDU MIB 7

122°

302°

Max holding alt 6000 Max holding 100 KIAS

1878

MIB 7 Arc

DEERING Chan 96 MIB

1754

LR-101

1751

(IAF) AMIRE MIB 14 3600

JOKPO MIB 4

JOLBO MIB 7

289°

R-109

1889

10 NM

MSA MIB 25 NM

3200

110°

4200

320°

EMERG SAFE ALT 100 NM 4800

1779

3600 MIB R-302

JUSDU MIB 7

JOLBO R-109 7

JOKPO 4

TACAN

JULAM 1.7

2.7

289°

3000

2400

2.54°

TCH 49

.3

2.3 NM

ELEV 1667

11

1809

1728

13,197 x 300

1769

1776

TDZE 1644

29

289° to TACAN

HIRL Rwy 11-29

CATEGORY	COPTER		
H-289° *	2040/12	396	(400-¼)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

HI-ILS or LOC/DME RWY 11

LOC I-MJW	APCH CRS	Rwy ldg / THRE / Arpt Elev
109.9	115°	13,197 / 1667 / 1667

JAL-5013 [USAF]

MINOT AFB (KMIB)

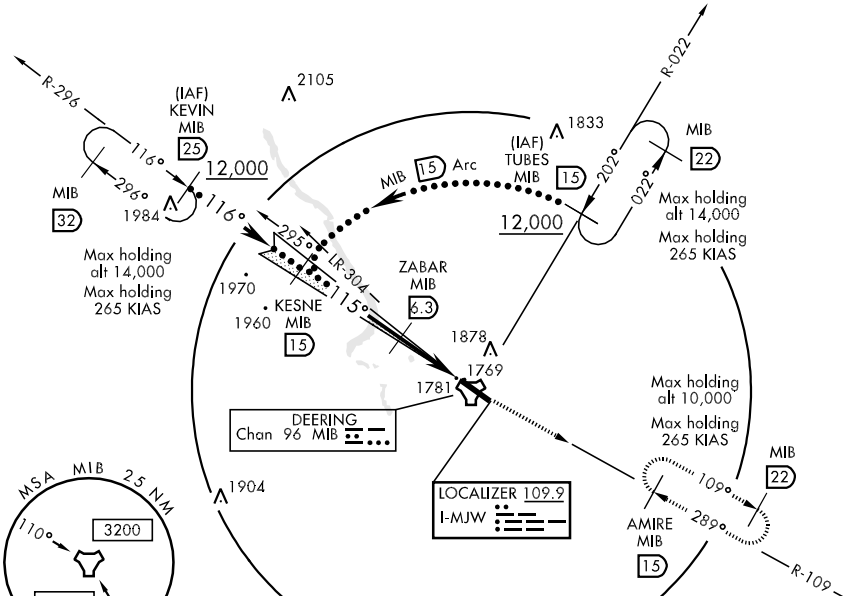
* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1¼ miles.

ALSF-1

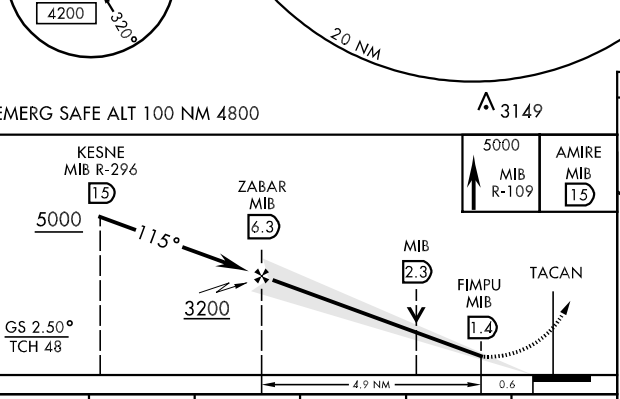
MISSED APPROACH: Climb to 5000 via MIB TACAN R-109 direct AMIRE and hold.

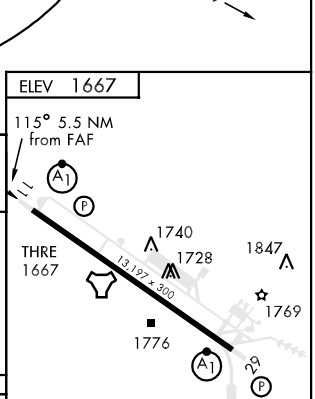
ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2

*** Circling not authorized N of Rwy 11-29.



EMERG SAFE ALT 100 NM 4800





CATEGORY	A	B	C	D	E
S-ILS 11 *	1867/24 200 (200-½)				
S-LOC 11 **	2100/24 433 (500-½)		2100/40 433 (500-¾)		
CIRCLING ***	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

LOC FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

NC-1, 21 OCT 2010 to 18 NOV 2010

HI-ILS or LOC/DME RWY 29

LOC I-MIB	APCH CRS	Rwy ldg / THRE / Arpt Elev
109.9	295°	13,197 / 1638 / 1667

AL-5013 [USAF]

MINOT AFB (KMIB)

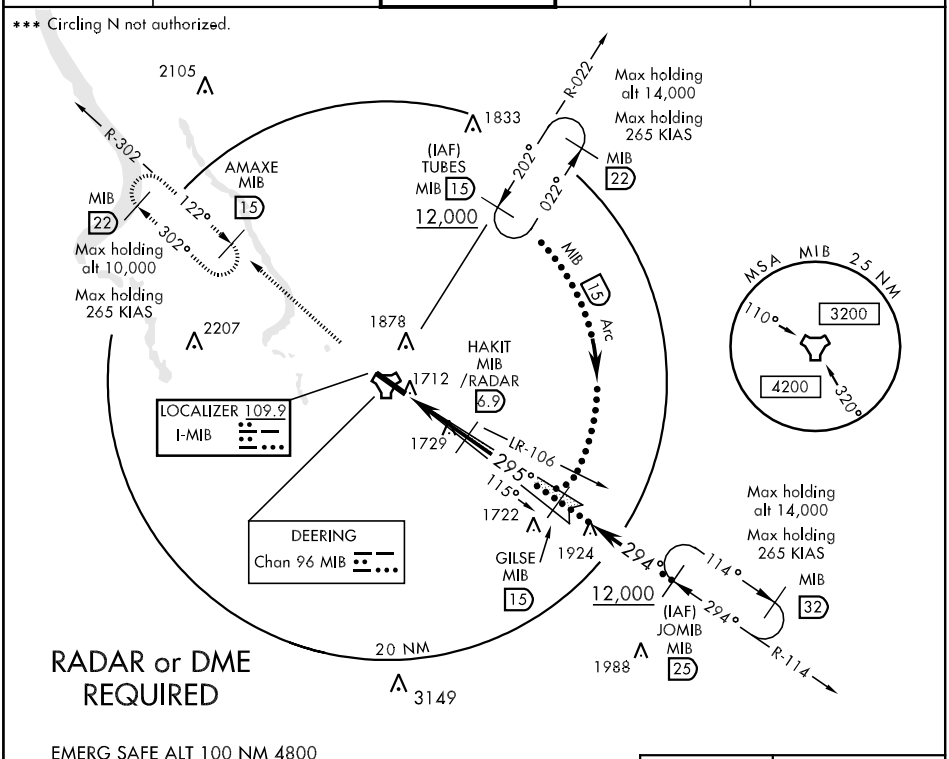
* When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT ABCDE RVR to 55 and vis to 1 mile.

ALSF-1

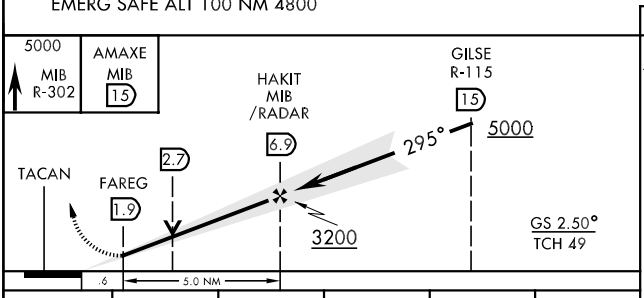
MISSED APPROACH: Climb to 5000 via MIB TACAN R-302 direct AMAXE and hold.

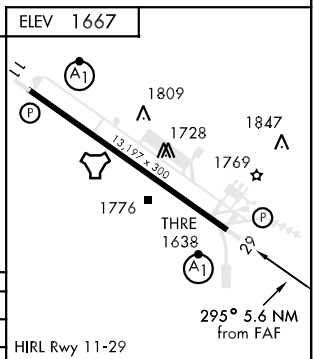
ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2

*** Circling N not authorized.



EMERG SAFE ALT 100 NM 4800





CATEGORY	A	B	C	D	E
S-ILS 29 *	1838/24 200 (200-½)				
S-LOC 29 **	2000/24 362 (400-½)		2000/35 362 (400-⅝)		
CIRCLING ***	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

LOC FAF to MAP 5.0 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

HI-TACAN RWY 11

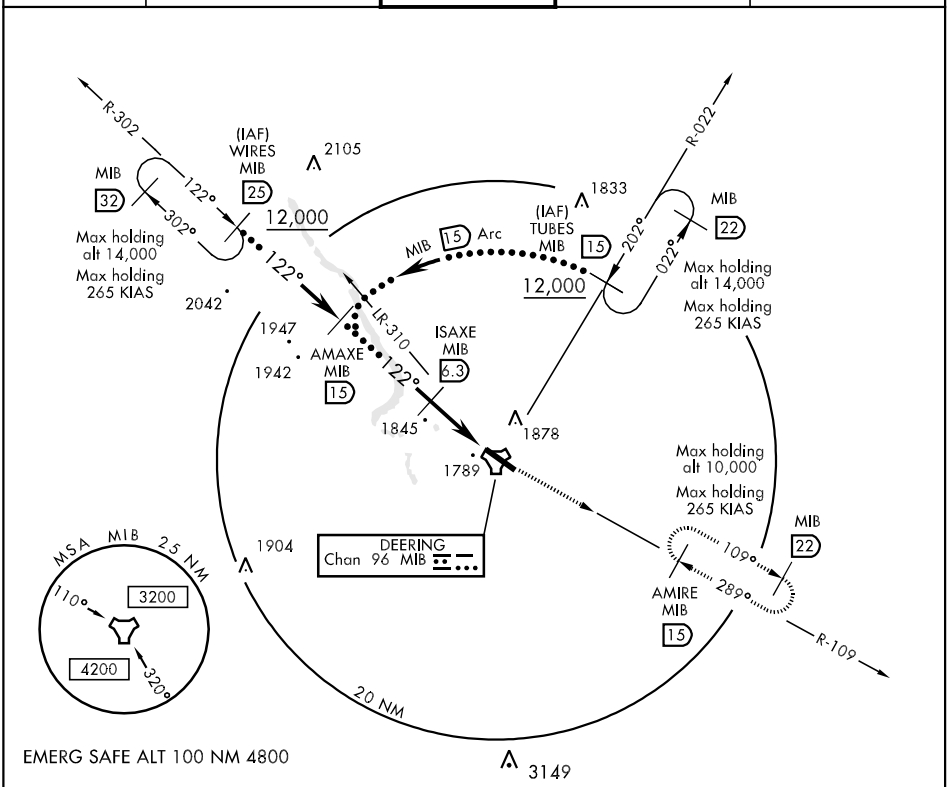
TACAN MIB Chan 96	APCH CRS 122°	Rwy ldg 13,197 THRE 1667 Arpt Elev 1667	JAL-5013 [USAF]	MINOT AFB (KMIB)

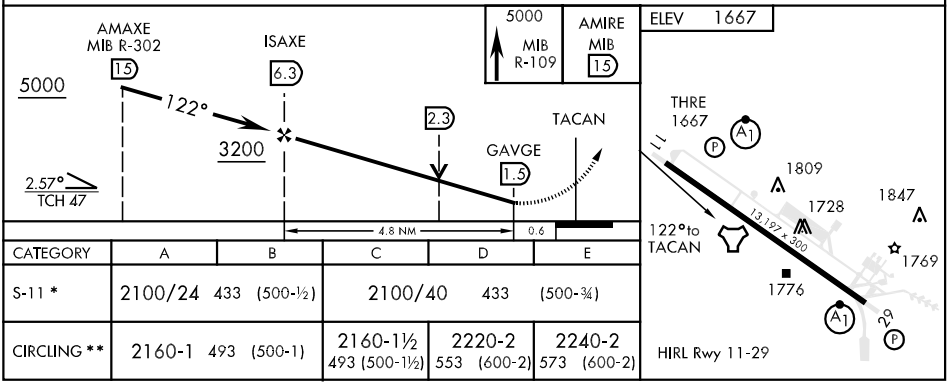
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1¼ miles.
** Circling not authorized N of Rwy 11-29.

ALSF-1

MISSED APPROACH: Climb to 5000 via MIB TACAN R-109 direct AMIRE and hold.

ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2





CATEGORY	A	B	C	D	E
S-11 *	2100/24 433 (500-½)		2100/40 433 (500-¾)		
CIRCLING **	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

HI-TACAN RWY 29

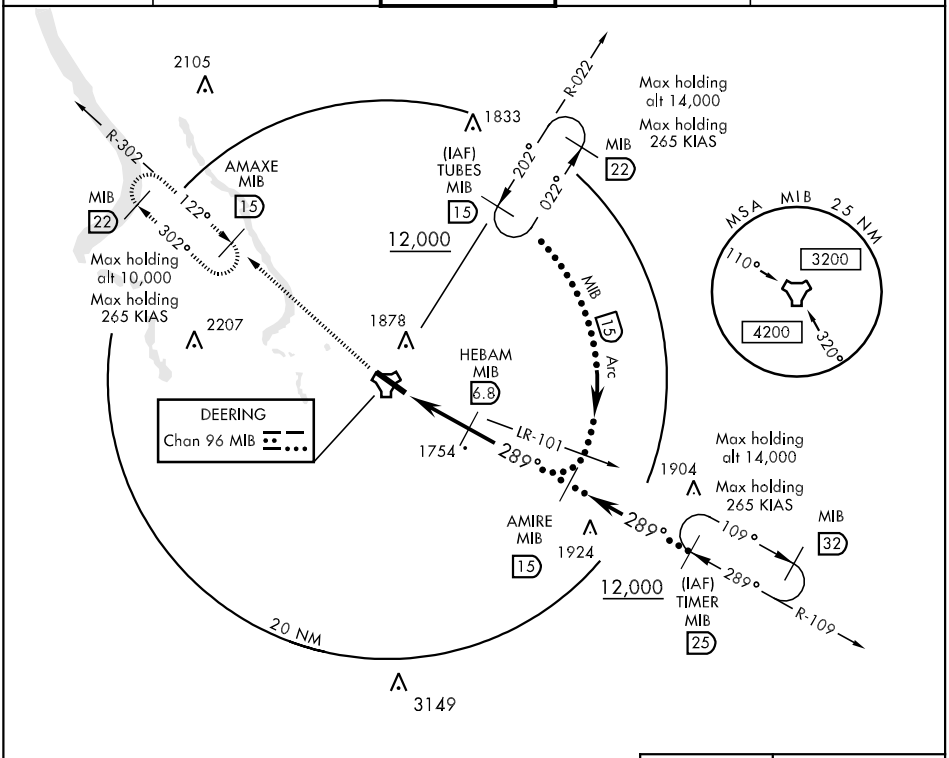
TACAN MIB Chan 96	APCH CRS 289 °	Rwy ldg 13,197 THRE 1638 Arpt Elev 1667	AL-5013 [USAF]	MINOT AFB (KMIB)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜miles.
** Circling not authorized N of Rwy 11-29.

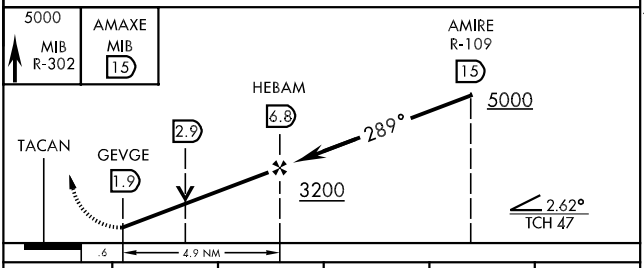
ALSF-1 (A1)

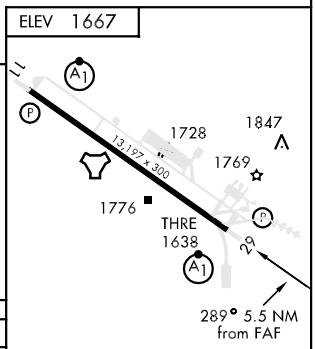
MISSED APPROACH: Climb to 5000 via MIB TACAN R-302 direct AMAXE and hold.

ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2



EMERG SAFE ALT 100 NM 4800





CATEGORY	A	B	C	D	E
S-29 *	2100/24 462 (500-½)		2100/50 462 (500-1)		
CIRCLING **	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

HIRL Rwy 11-29

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

ILS or LOC/DME RWY 11

LOC I-MJW 109.9	APCH CRS 115°	Rwy ldg 13,197 THRE 1667 Arpt Elev 1667	JAL-5013 [USAF]	MINOT AFB (KMIB)

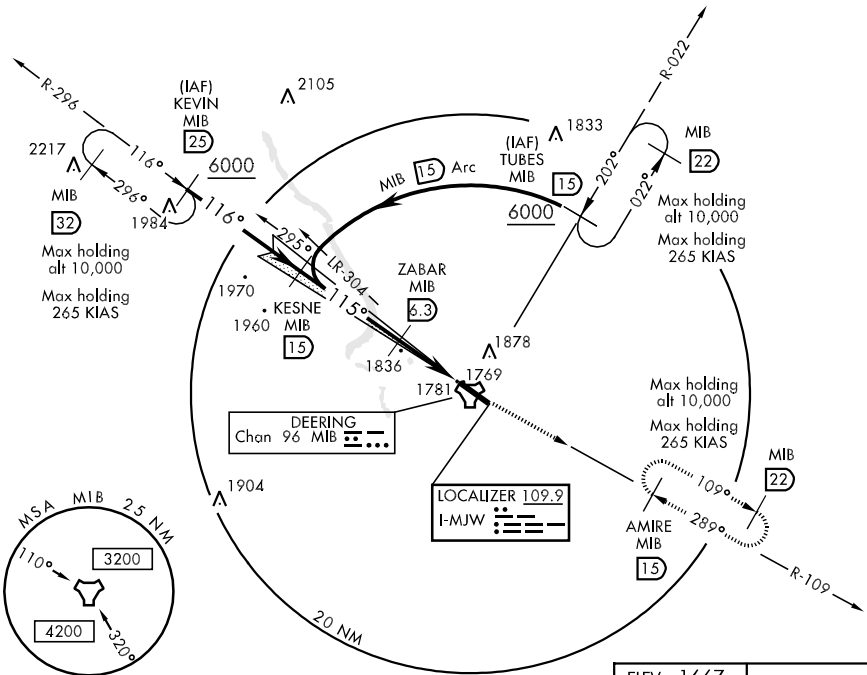
* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1¼ miles.

ALSF-1

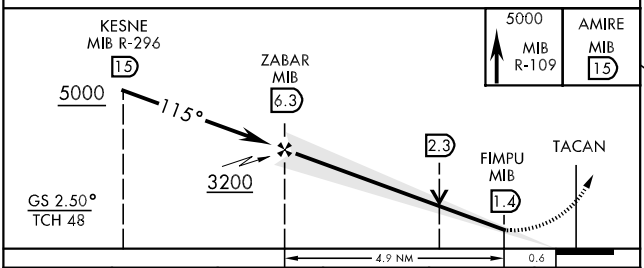
MISSED APPROACH: Climb to 5000 via MIB TACAN R-109 direct AMIRE and hold.

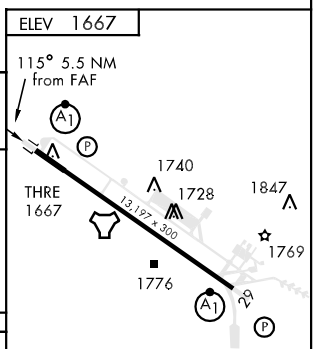
ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2

*** Circling not authorized N of Rwy 11-29.



EMERG SAFE ALT 100 NM 4800





CATEGORY	A	B	C	D	E
S-ILS 11 *	1867/24 200 (200-½)				
S-LOC 11 **	2100/24 433 (500-½)		2100/40 433 (500-¾)		
CIRCLING ***	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

LOC FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

ILS or LOC/DME RWY 29

LOC I-MIB	APCH CRS	Rwy ldg / THRE / Arpt Elev
109.9	295°	13,197 / 1638 / 1667

AL-5013 [USAF]

MINOT AFB (KMIB)

* When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.

ALSF-1 (A1)

MISSED APPROACH: Climb to 5000 via MIB TACAN R-302 direct AMAXE and hold.

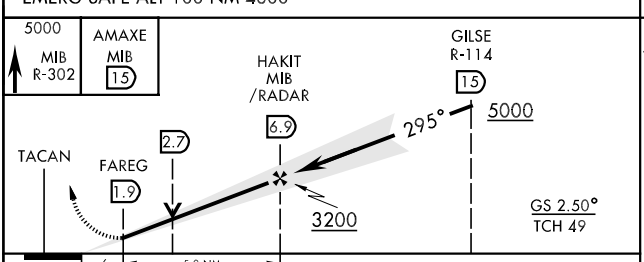
ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2

*** Circling not authorized N or Rwy 11-29.

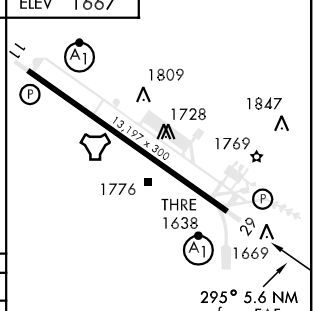
2105
1833
R-022
Max holding alt 10,000
Max holding 265 KIAS
R-302
(IAF) TUBES MIB 15
6000
202°
022°
MIB 22
AMAXE MIB 15
MIB 22
122°
302°
Max holding alt 10,000
Max holding 265 KIAS
MIB 15 Arc
MSA MIB 25 NM
110°
3200
4200
320°
2207
1878
HAKIT MIB /RADAR 6.9
1726
LOCALIZER 109.9 I-MIB
LR-106
295°
115°
1773
1722
1924
DEERING Chan 96 MIB
GILSE MIB 15
294°
114°
Max holding alt 10,000
Max holding 265 KIAS
MIB 32
6000
(IAF) JOMIB MIB 25
294°
R-114
1988
20 NM
3149

RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 4800



ELEV 1667



HIRL Rwy 11-29

CATEGORY	A	B	C	D	E
S-ILS 29 *	1838/24 200 (200-½)				
S-LOC 29 **	2040/24 402 (400-½)		2040/40 402 (400-¾)		
CIRCLING ***	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

LOC FAF to MAP 5.0 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

TACAN RWY 11

TACAN MIB Chan 96	APCH CRS 122°	Rwy ldg 13,197 THRE 1667 Arpt Elev 1667

JAL-5013 [USAF]

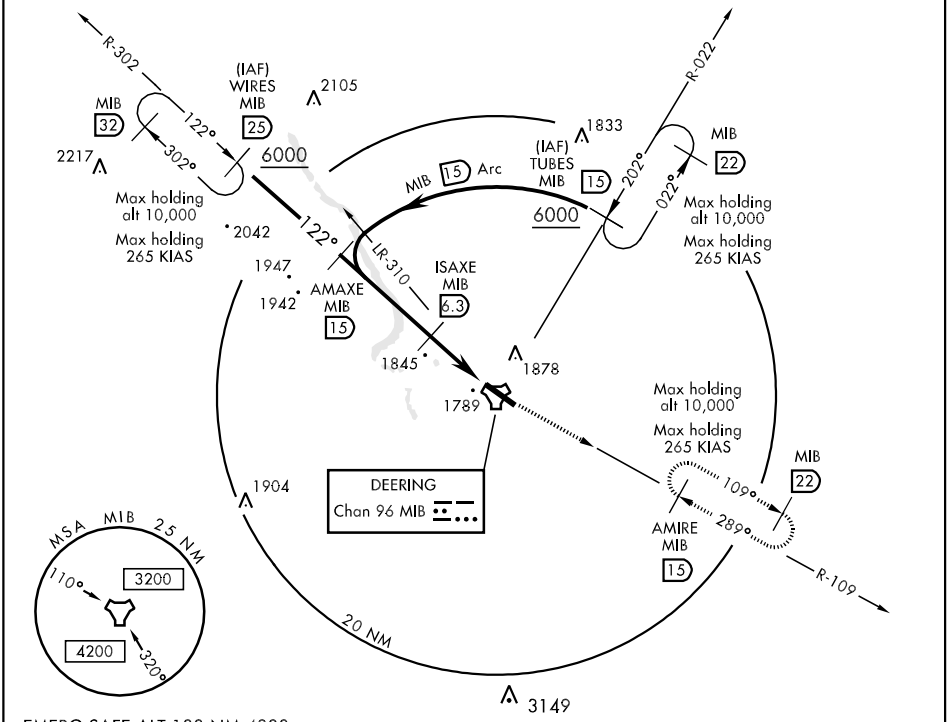
MINOT AFB (KMIB)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1¼ miles.
** Circling not authorized N of Rwy 11-29.

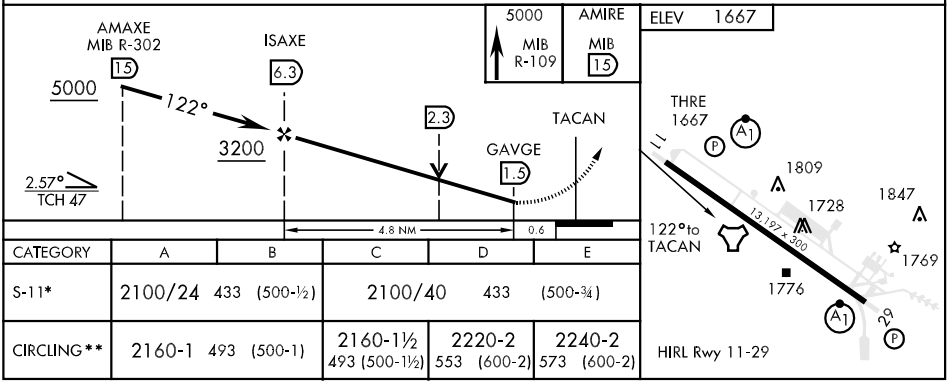
ALSF-1

MISSED APPROACH: Climb to 5000 via MIB TACAN R-109 direct AMIRE and hold.

ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2



EMERG SAFE ALT 100 NM 4800



CATEGORY	A	B	C	D	E
S-11*	2100/24 433 (500-½)		2100/40 433 (500-¾)		
CIRCLING**	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

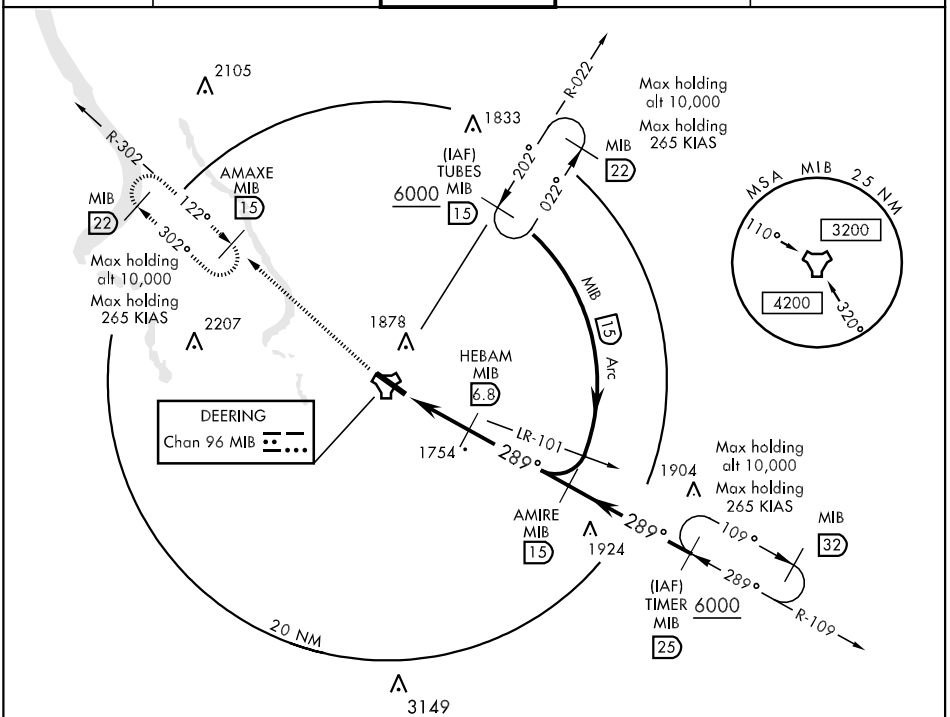
TACAN MIB Chan 96	APCH CRS 289 °	Rwy ldg 13,197 THRE 1638 Arpt Elev 1667	AL-5013 [USAF]

* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,CAT CDE vis to 1⅜ miles.
** Circling not authorized N of Rwy 11-29.

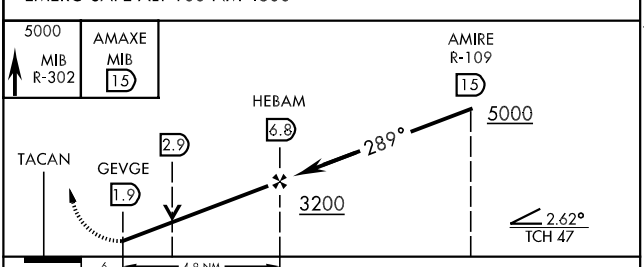
ALSF-1

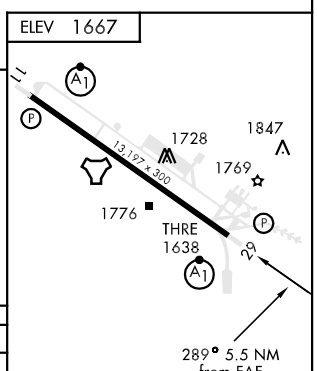
MISSED APPROACH: Climb to 5000 via MIB TACAN R-302 direct AMAXE and hold.

ATIS ★	MINOT APP CON	MINOT TOWER ★	GND CON	CLNC DEL
278.8	119.6 363.8	120.65 253.5	134.0 275.8	326.2



EMERG SAFE ALT 100 NM 4800





CATEGORY	A	B	C	D	E
S-29 *	2100/24 462 (500-½)		2100/50 462 (500-1)		
CIRCLING **	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

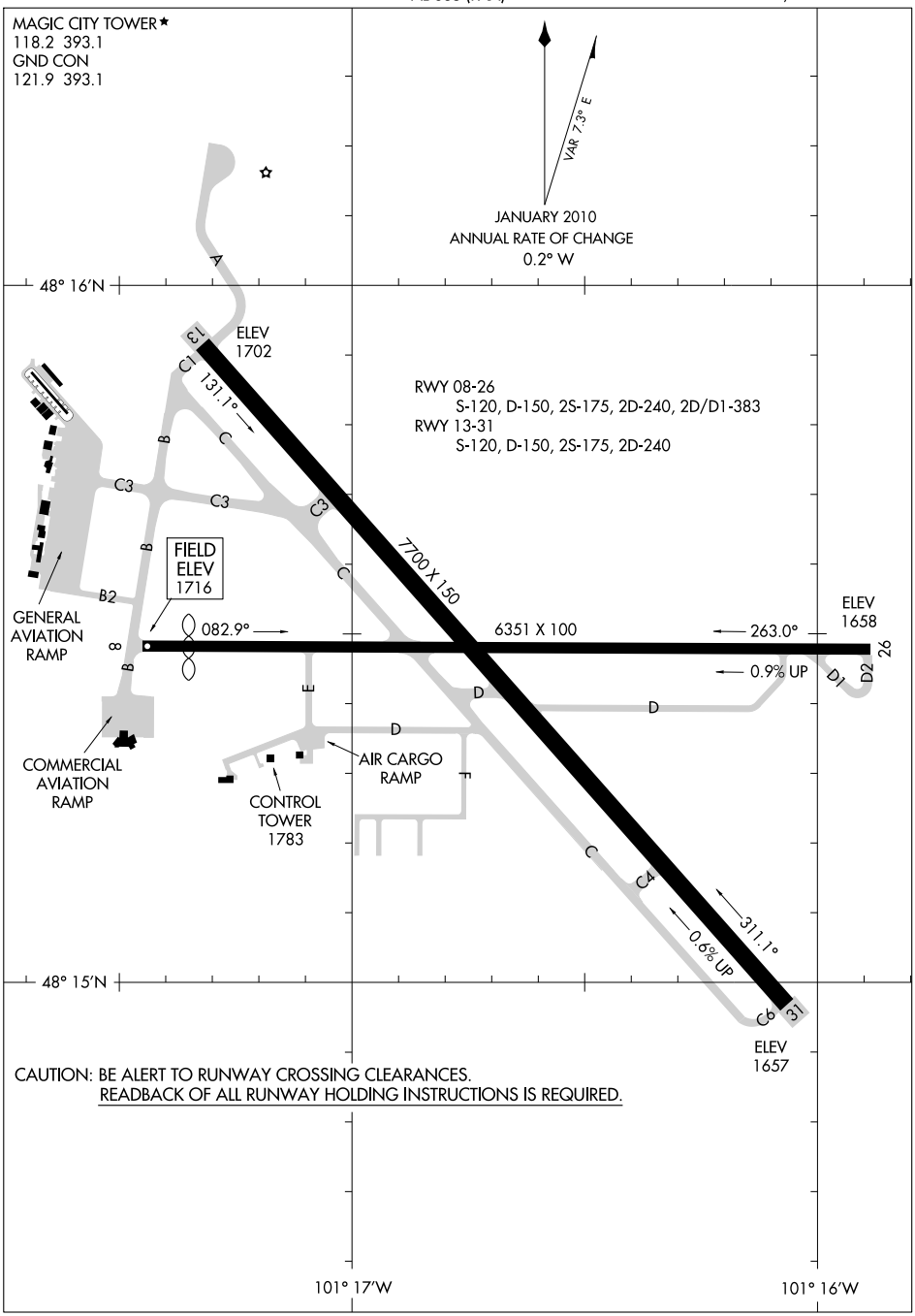
HIRL Rwy 11-29

NC-1, 21 OCT 2010 to 18 NOV 2010

AIRPORT DIAGRAM

AL-635 (FAA)

MINOT INTL (MOT)
MINOT, NORTH DAKOTA

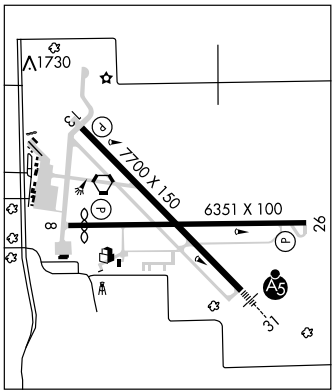


NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

AIRPORT DIAGRAM
10210
MINOT, NORTH DAKOTA
MINOT INTL (MOT)

MINOT INTL (MOT) 2 N UTC−6(−5DT) N48°15.46′ W101°16.68′ **BILLINGS**
1716 B S4 **FUEL** 100LL, JET A OX 3 AOE Class I, ARFF Index B NOTAM FILE MOT **H–2H, L–14F**
RWY 13–31: H7700X150 (CONC–GRVD) S–120, D–150, 2S–175, 2D–240 HIRL 0.6% up NW **IAP, AD**
RWY 13: PAPI(P4L). **RWY 31:** MALSR.
RWY 08–26: H6351X100 (ASPH–GRVD) S–120, D–150, 2S–175, 2D–240, 2D/D1–383 HIRL 0.9% up W
RWY 08: REIL. PAPI(P4L)—GA 3.0° TCH 49′. Thld dsplcd 393′. Trees.
RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 50′.



AIRPORT REMARKS: Attended continuously. Deer and birds on and invof arpt. CLOSED to unscheduled air carrier acft ops with more than 30 passenger seats, except PPR: call arpt manager 701–857–4724. Twys D, E, and B2 not avbl for air carrier ops with more than 30 passenger seats. Twys D, E and B2 restricted to 12,500 pounds or less and are marked with edge reflectors. Rwy 31 touchdown, rwy visual range avbl. When twr is clsd ACTIVATE HIRL Rwy 08–26 and Rwy 13–31, REIL Rwy 08 and Rwy 26, MALSR Rwy 31—CTAF. PAPI Rwy 08, 26 and Rwy 13 opr 24 hrs. Ldg fee for acft over 12,500 pounds. Customs svc avbl 24 hrs; for customs call 701–838–6704. Flight Notification Service (ADCUS) available.
WEATHER DATA SOURCES: ASOS 118.725 (701) 837–9379. **HIWAS** 117.1 MOT.
COMMUNICATIONS: CTAF 118.2 **UNICOM** 122.95
RCO 122.2 (GRAND FORKS RADIO)
Ⓡ **APP/DEP CON** 119.6 (Opr 24 hrs, from Mon 1300Z‡ thur Sat 0500Z. Sat and Sun 1300–0500Z‡), other hrs ctc **MINNEAPOLIS CENTER APP/DEP CON** 127.6
MAGIC CITY TOWER 118.2 (1300–0400Z‡) **GND CON** 121.9
AIRSPACE: CLASS D svc 1300–0400Z‡ other times CLASS E.
RADIO AIDS TO NAVIGATION: NOTAM FILE MOT.
(H) VORTACW 117.1 MOT Chan 118 N48°15.62′ W101°17.22′ at fld. 1691/13E. **HIWAS.**
VOR unusable:
100°–125° byd 35 NM blo 3,700′.
135°–230° byd 35 NM blo 4,000′
230°–265° byd 35 NM blo 3,700′
265°–300° byd 35 NM blo 3,500′.
ILS/DME 111.9 I–MOT Chan 56 Rwy 31. Localizer backcourse unusable byd 15 NM. ILS unmonitored 0400–1300Z‡
COMM/NAV/WEATHER REMARKS: Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1300–1500Z‡ and alternate Tuesdays 1230–1430Z‡.

MINTO MUNI (DØ6) 1 W UTC−6(−5DT) N48°17.00′ W97°23.52′ **TWIN CITIES**
820 NOTAM FILE GFK
RWY 17–35: 2600X100 (CONC–TURF)
RWY 17: Road. **RWY 35:** P-line.
AIRPORT REMARKS: Attended May–Sep 1400–2300Z‡, Oct–Apr on call. Arpt CLOSED in winter months except PPR ctc arpt manager 701–248–3224. Confirm winter conditions and snow removal before use 701–248–3224/ 218–779–7940. Rwy 17–35 conc surface 2300′X20′ in center located 300′ inbound north end; turf surface soft when wet; sparse grass bordering conc edges. Rwy 35 −5′ drainage swale 50′ from thld.
COMMUNICATIONS: CTAF 122.9

LOC/DME I-MOT	APP CRS	Rwy ldg	7700
111.9	308°	TDZE	1673
Chan 56		Apt Elev	1716

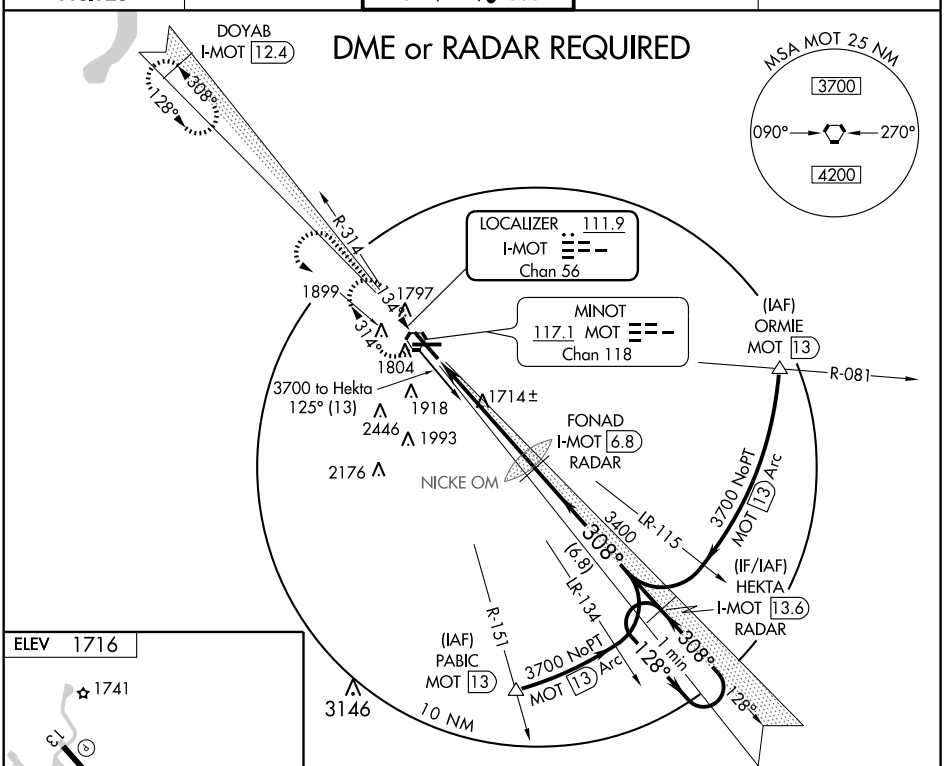
ILS or LOC RWY 31
MINOT INTL (MOT)

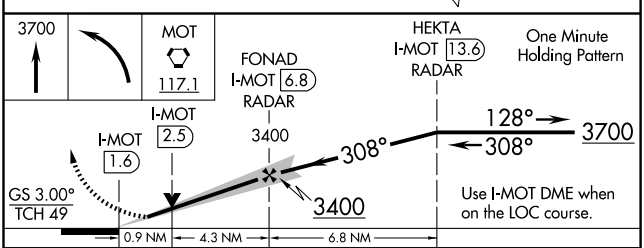
If local altimeter setting not received use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. VDP NA when using Minot AFB altimeter setting.
DME or RADAR required. For inoperative MALSR increase S-ILS 31 Cat E visibility to RVR 4000, and S-LOC 31 Cats D and E visibility to RVR 5000.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR A5

MISSED APPROACH: Climb to 3700 then left turn direct MOT VORTAC and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) L 393.1	121.9 393.1	122.95





REIL Rwy 8 and 26 L
HIRL Rwys 8-26 and 13-31 L

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

CATEGORY	A	B	C	D	E
S-ILS 31	* 1873/24 200 (200-½)				
S-LOC 31	1980/24 307 (300-½)			1980/40 307 (300-¾)	
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)	2800-3 1084 (1100-3)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

LOC/DME I-MOT	APP CRS	Rwy ldg	7700
111.9	128°	TDZE	1702
Chan 56		Apt Elev	1716

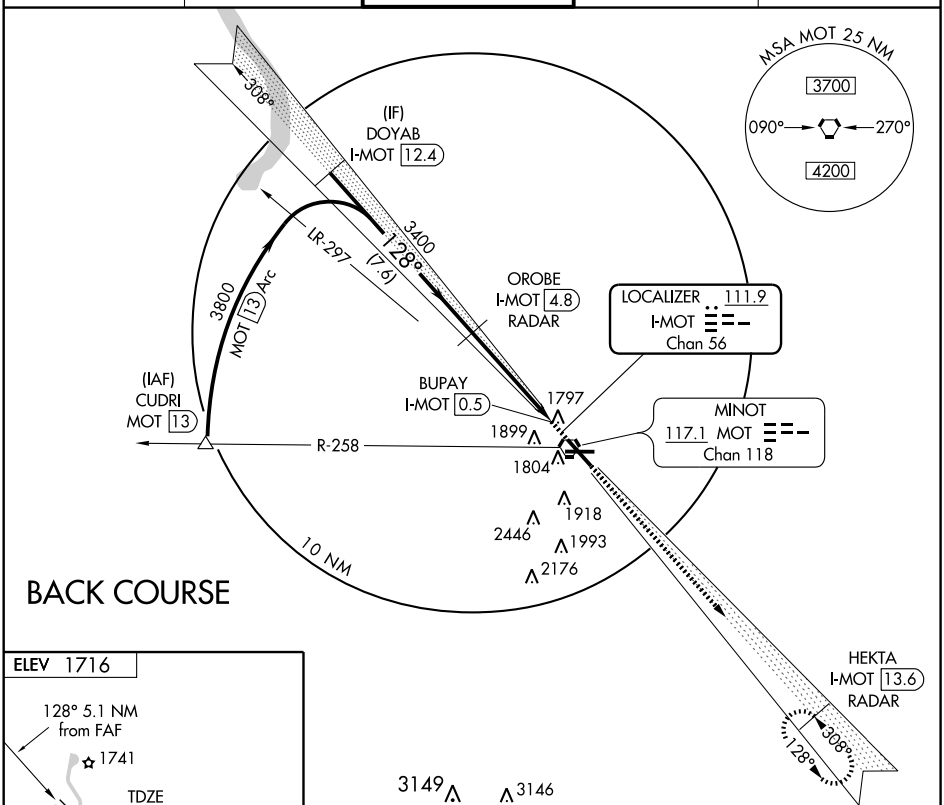
LOC/DME BC RWY 13

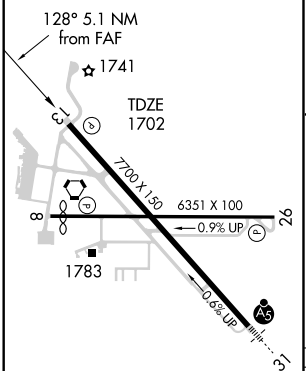
MINOT INTL (MOT)

If local altimeter not received use Minot AFB altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climb to 3700 via I-MOT LOC SE course to HEKTA/I-MOT 13.6 DME/RADAR and hold.

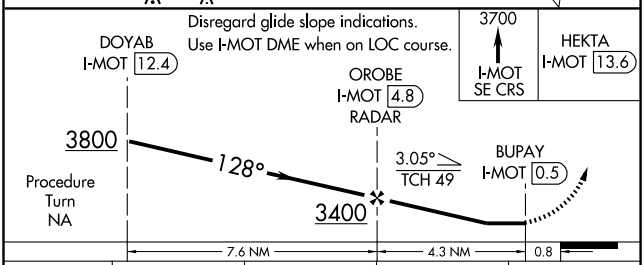
ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) L 393.1	121.9 393.1	122.95





REIL Rwy 8 and 26 L
HIRL Rwys 8-26 and 13-31 L

Disregard glide slope indications.
Use I-MOT DME when on LOC course.



CATEGORY	A	B	C	D
S-13	2060-1 358 (400-1)			2060-1¼ 358 (400-1¼)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS Chan **97616** **W08A**	APP CRS **080°**	Rwy ldg **5958** TDZE **1712** Apt Elev **1716**

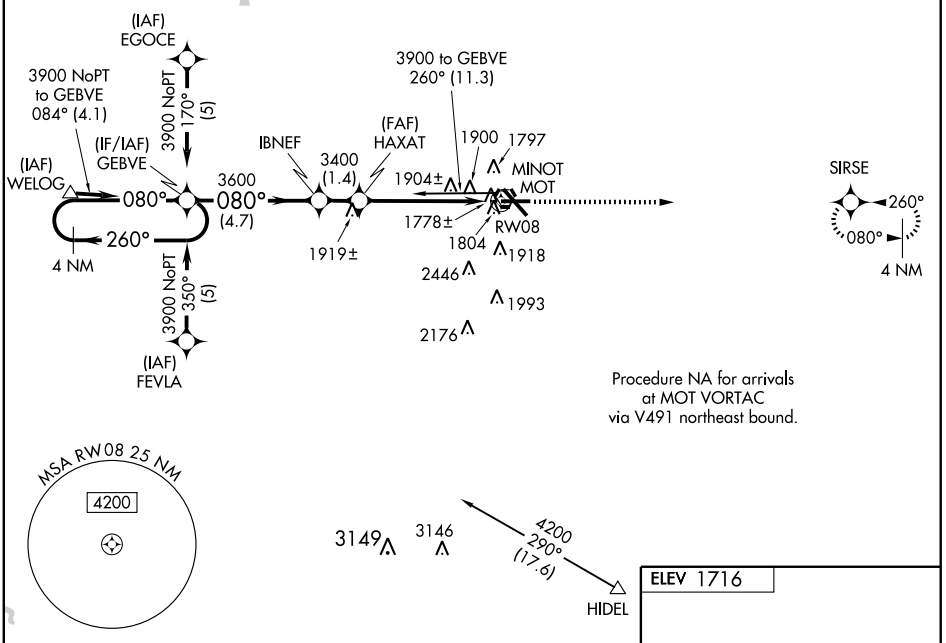
RNAV (GPS) RWY 8
MINOT INTL (MOT)

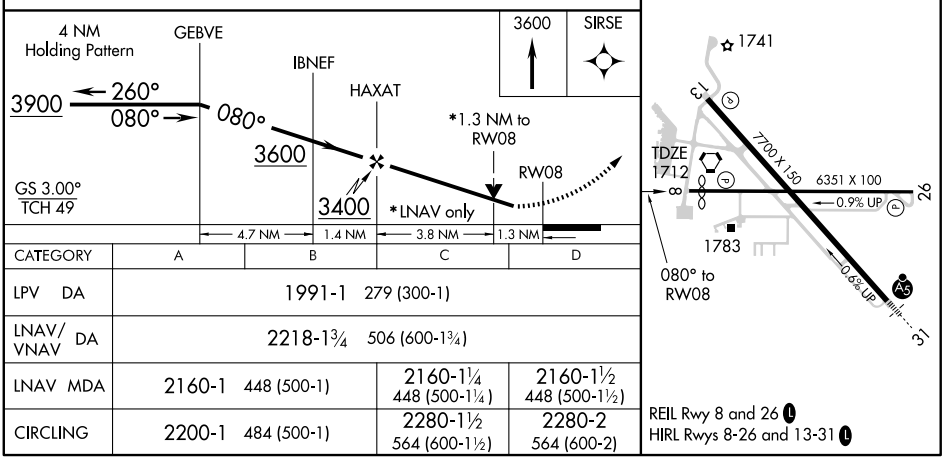
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Minot AFB altimeter setting. VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all DA 30 feet and all MDA 40 feet; increase LNAV/VNAV all Cats visibility ¼ mile and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3600 direct SIRSE and hold.

ASOS	MINOT APP CON★	MAGIC CITY TOWER★	GND CON	UNICOM
118.725	**119.6 363.8**	**118.2** (CTAF) **393.1**	**121.9 393.1**	**122.95**

RADAR required for procedure entry at EGOCE.





CATEGORY	A	B	C	D
LPV DA	1991-1 279 (300-1)			
LNAV/VNAV DA	2218-1¾ 506 (600-1¾)			
LNAV MDA	2160-1 448 (500-1)		2160-1¼ 448 (500-1¼)	2160-1½ 448 (500-1½)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

REIL Rwy 8 and 26
HIRL Rwys 8-26 and 13-31

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

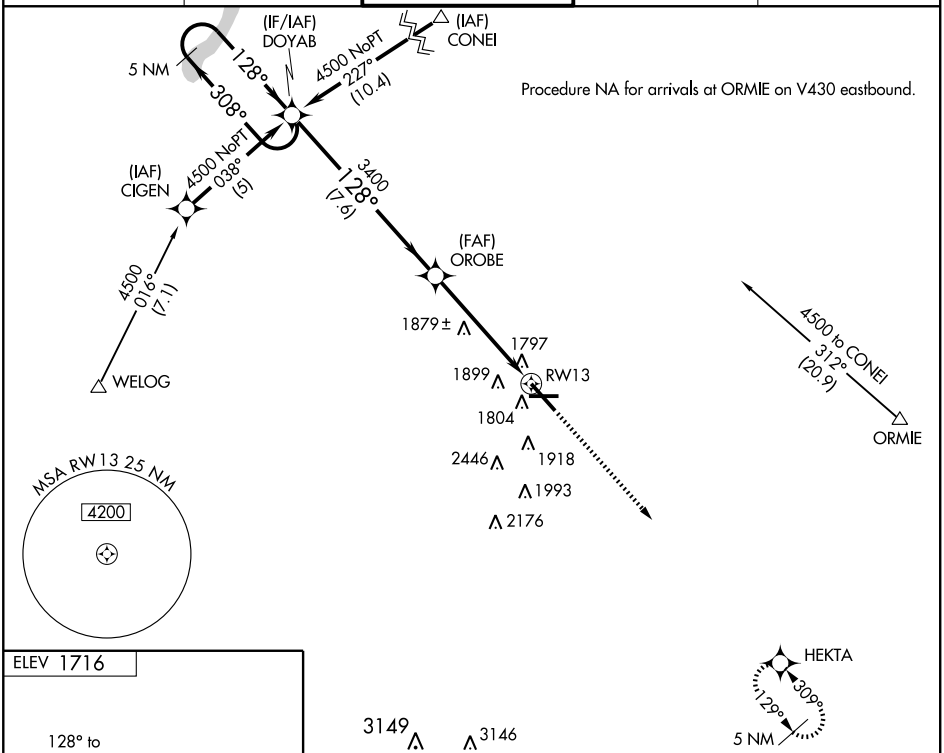
WAAS Chan **70399** W13A	APP CRS **128°**	Rwy ldg **7700** TDZE **1702** Apt Elev **1716**

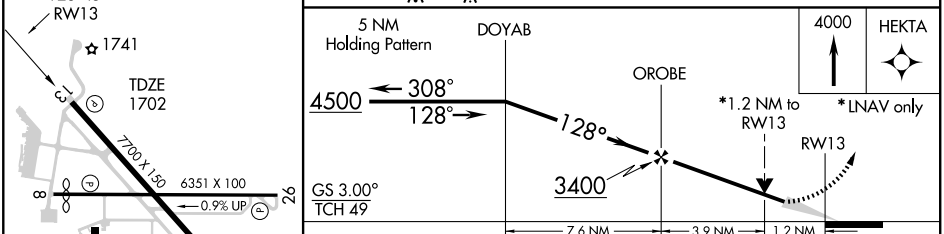
RNAV (GPS) RWY 13
MINOT INTL (MOT)

If local altimeter not received, use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. Baro-VNAV NA below -18°C (0°F). VDP and Baro-VNAV NA when using Minot AFB altimeter setting. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4000 direct HEKTA and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) L 393.1	121.9 393.1	122.95





REIL Rwy 8 and 26 L
HIRL Rwys 8-26 and 13-31 L

CATEGORY	A	B	C	D
LPV DA	2021-1 319 (400-1)			
LNAV/VNAV DA	2181-1¾ 479 (500-1¾)			
LNAV MDA	2140-1 438 (500-1)		2140-1¼ 438 (500-1¼)	2140-1½ 438 (500-1½)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

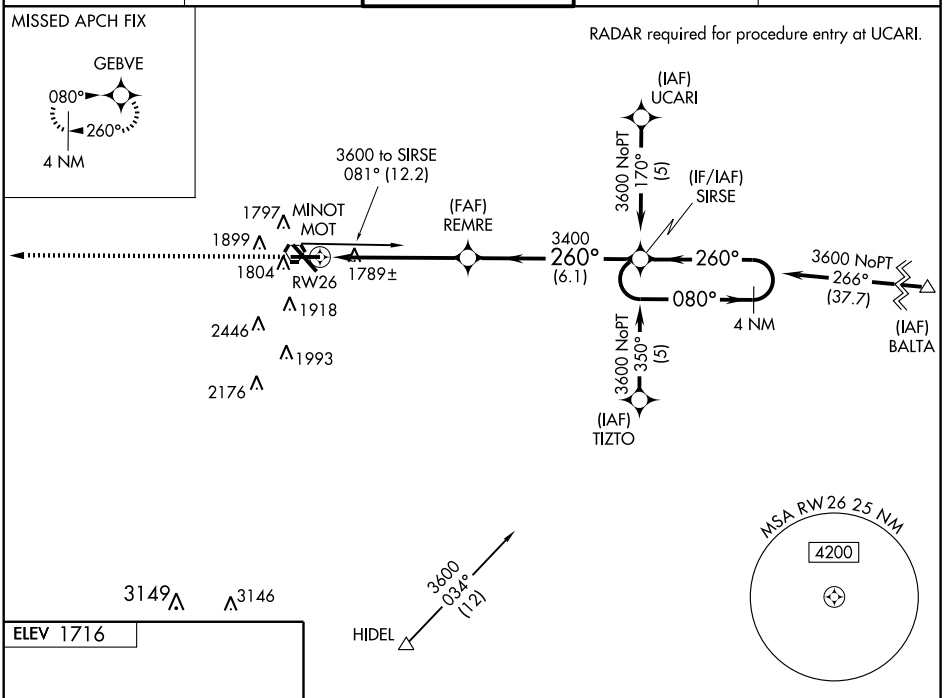
WAAS Chan **56516** **W26A**	APP CRS **260°**	Rwy ldg **6351** TDZE **1682** Apt Elev **1716**

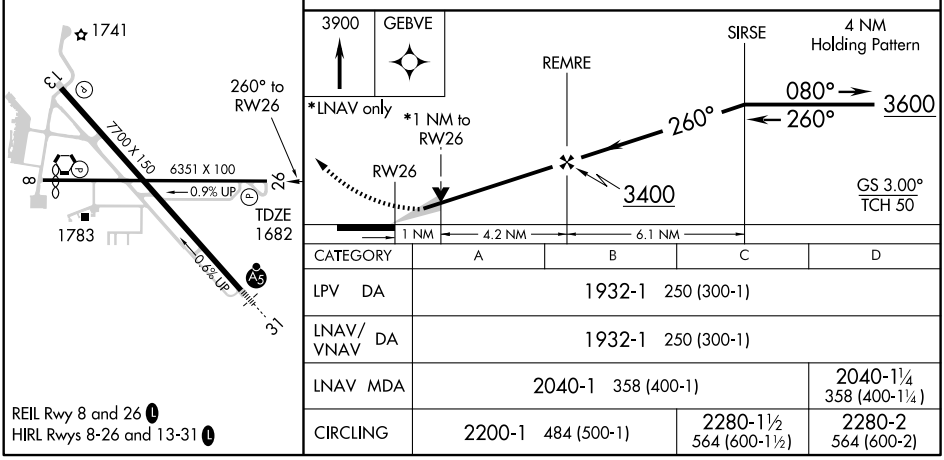
RNAV (GPS) RWY 26
MINOT INTL (MOT)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. Baro-VNAV NA when using Minot AFB altimeter setting. VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all DA 30 feet and all MDA 40 feet; increase Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3900 direct GEBVE and hold.

ASOS	MINOT APP CON★	MAGIC CITY TOWER★	GND CON	UNICOM
118.725	**119.6 363.8**	**118.2** (CTAF) (L) **393.1**	**121.9 393.1**	**122.95**





CATEGORY	A	B	C	D
LPV DA	1932-1 250 (300-1)			
LNAV/VNAV DA	1932-1 250 (300-1)			
LNAV MDA	2040-1 358 (400-1)			2040-1¼ 358 (400-1¼)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

REIL Rwy 8 and 26 (L)
HIRL Rwys 8-26 and 13-31 (L)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS Chan **66099** W31A	APP CRS **308°**	Rwy ldg **7700** TDZE **1673** Apt Elev **1716**

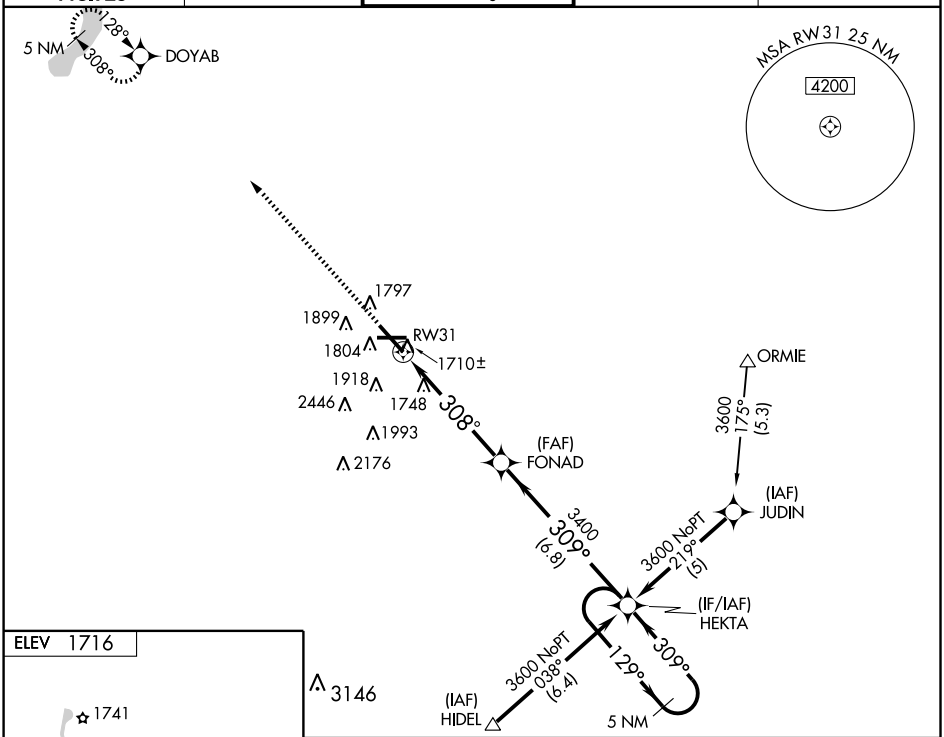
RNAV (GPS) RWY 31
MINOT INTL (MOT)

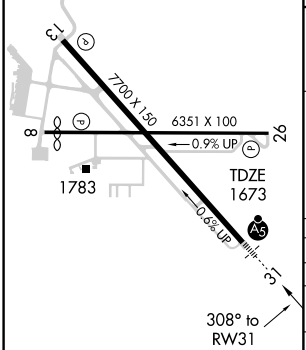
If local altimeter setting not received use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. Baro-VNAV NA below -18°C (0°F). VDP and Baro-VNAV NA when using Minot AFB altimeter setting. For inoperative MALSR increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat D visibility to RVR 5000. Inoperative table does not apply to LNAV Cat D. DME/DME RNP-0.3 NA.

MALSR

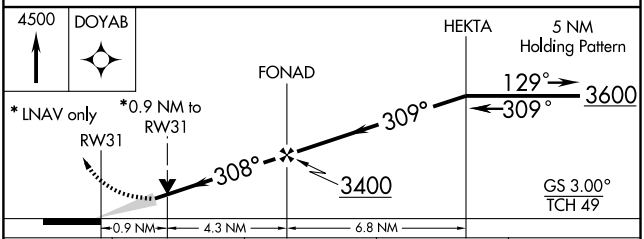
MISSED APPROACH: Climb to 4500 direct DOYAB and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) L 393.1	121.9 393.1	122.95





REIL Rwy 8 and 26 L
HIRL Rwys 8-26 and 13-31 L



CATEGORY	A	B	C	D
LPV DA	1923/24 250 (300-½)			
LNAV/VNAV DA	1960/24 287 (300-½)			1960/40 287 (300-¾)
LNAV MDA	2000/24 327 (300-½)			2000/50 327 (300-1)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

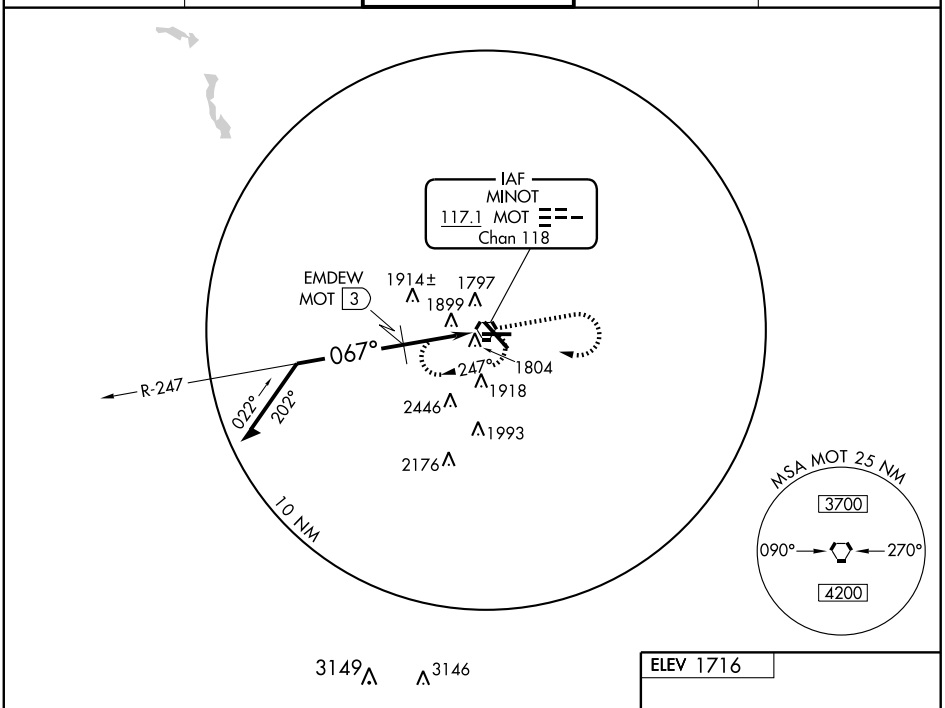
VORTAC MOT 117.1 Chan 118	APP CRS 067°	Rwy ldg 5958 TDZE 1712 Apt Elev 1716

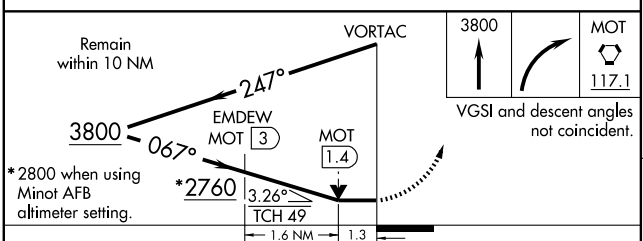
VOR RWY 8
MINOT INTL (MOT)

VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all MDA 40 feet; EMDEW FIX minimums increase S-8 and Circling Cat C visibility ¼ mile.

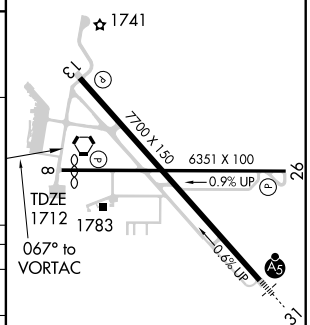
MISSED APPROACH: Climb to 3800 then right turn direct MOT VORTAC and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) (L) 393.1	121.9 393.1	122.95





CATEGORY	A	B	C	D
S-8	2760-1¼ 1048 (1100-1¼)	2760-1½ 1048 (1100-1½)	2760-3 1048 (1100-3)	
CIRCLING	2760-1¼ 1044 (1100-1¼)	2760-1½ 1044 (1100-1½)	2760-3 1044 (1100-3)	
EMDEW FIX MINIMUMS				
S-8	2180-1 468 (500-1)		2180-1¼ 468 (500-1¼)	2180-1½ 468 (500-1½)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)



REIL Rwy 8 and 26 (L)
HIRL Rwys 8-26 and 13-31 (L)

NC-1, 21 OCT 2010 to 18 NOV 2010

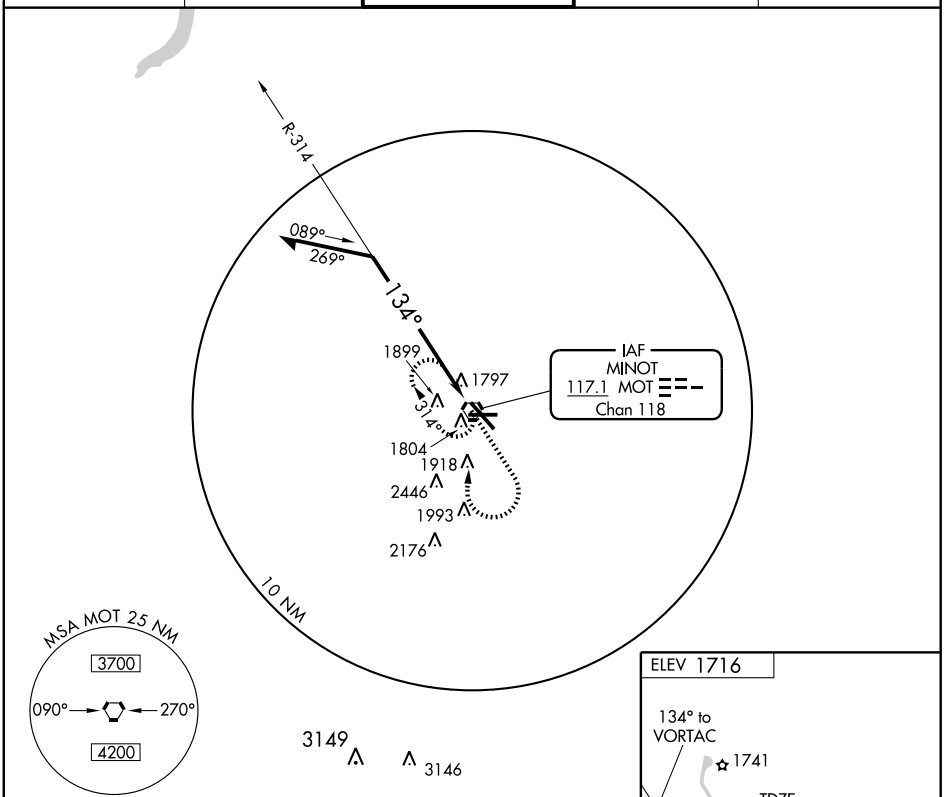
NC-1, 21 OCT 2010 to 18 NOV 2010

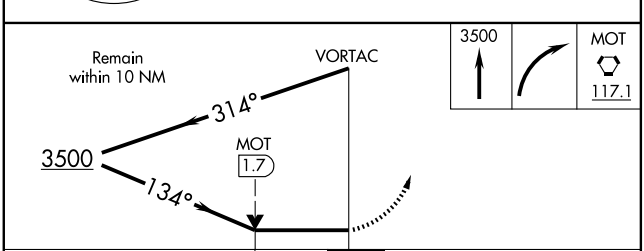
VORTAC MOT 117.1 Chan 118	APP CRS 134°	Rwy ldg 7700 TDZE 1702 Apt Elev 1716

VOR RWY 13
MINOT INTL (MOT)

MISSED APPROACH: Climb to 3500 then right turn direct MOT VORTAC and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) L 393.1	121.9 393.1	122.95





CATEGORY	A	B	C	D
S-13	2200-1	498 (500-1)	2200-1¼ 498 (500-1¼)	2200-1½ 498 (500-1½)
CIRCLING	2200-1	484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)

REIL Rwy 8 and 26 L
HIRL Rwys 8-26 and 13-31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

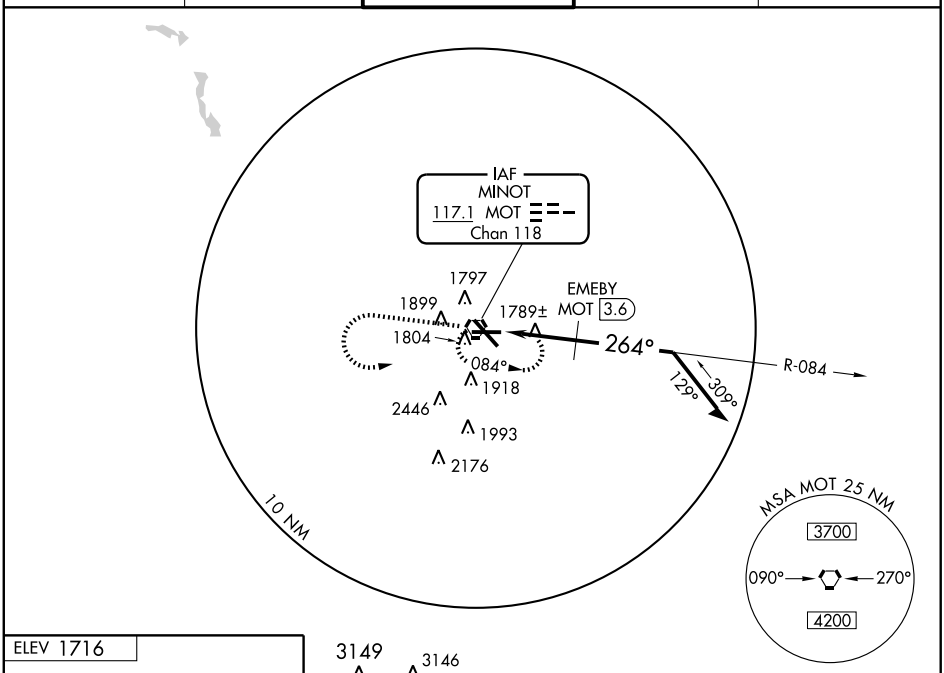
VOR RWY 26
MINOT INTL (MOT)

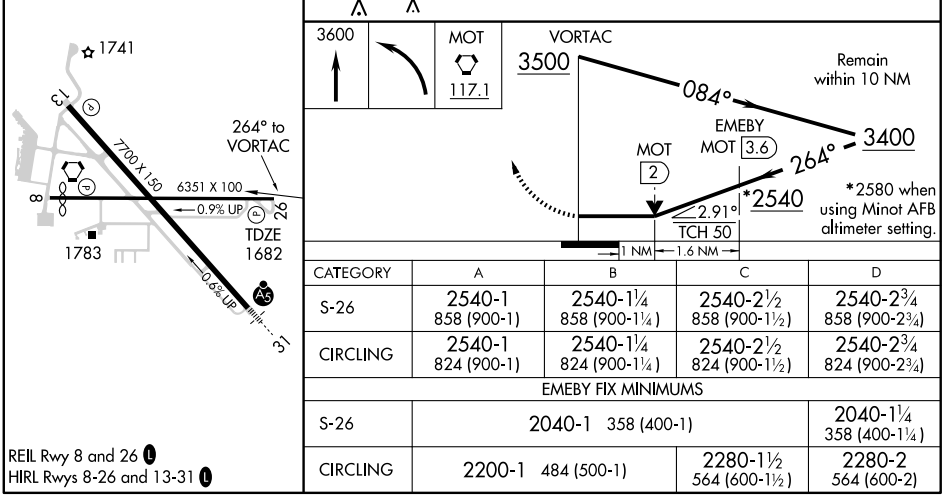
VORTAC MOT	APP CRS	Rwy ldg	6351
117.1	264°	TDZE	1682
Chan 118		Apt Elev	1716

VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all MDA 40 feet; increase S-26 and Circling Cats A/C/D visibility ¼ mile, and EMEBY FIX minimums Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3600 then left turn direct MOT VORTAC and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) (L) 393.1	121.9 393.1	122.95





CATEGORY	A	B	C	D
S-26	2540-1 858 (900-1)	2540-1¼ 858 (900-1¼)	2540-2½ 858 (900-1½)	2540-2¾ 858 (900-2¾)
CIRCLING	2540-1 824 (900-1)	2540-1¼ 824 (900-1¼)	2540-2½ 824 (900-1½)	2540-2¾ 824 (900-2¾)
EMEBY FIX MINIMUMS				
S-26	2040-1 358 (400-1)			2040-1¼ 358 (400-1¼)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

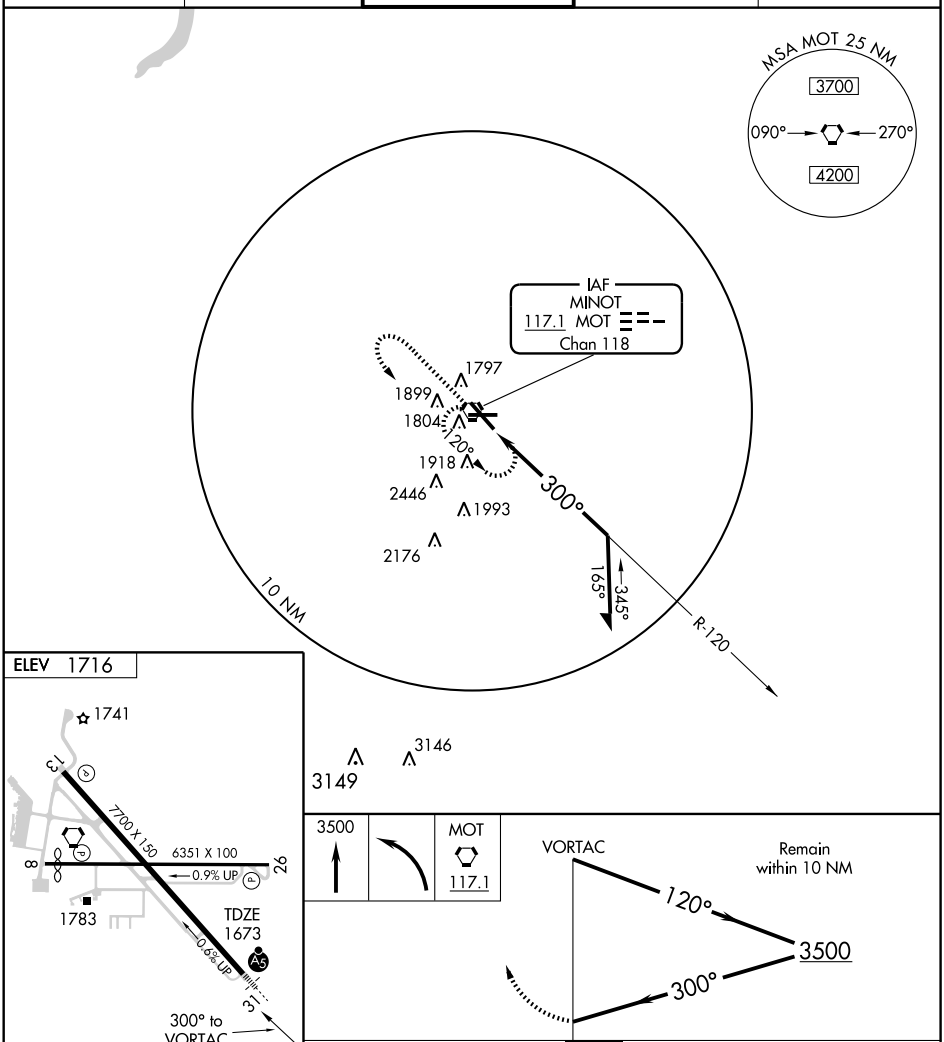
VORTAC MOT 117.1 Chan 118	APP CRS 300°	Rwy ldg 7700 TDZE 1673 Apt Elev 1716

VOR RWY 31
MINOT INTL (MOT)

MALSR

MISSED APPROACH: Climb to 3500 then left turn direct MOT VORTAC and hold.

ASOS	MINOT APP CON ★	MAGIC CITY TOWER ★	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) L 393.1	121.9 393.1	122.95



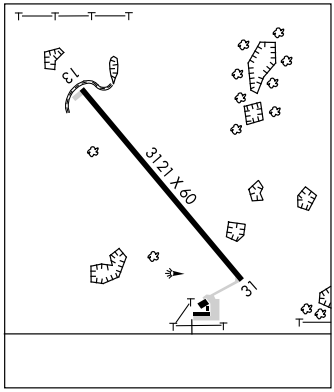
CATEGORY	A	B	C	D
S-31	2200/24	527 (500-½)	2200/50 527 (500-1)	2200/60 527 (500-1¼)
CIRCLING	2200-1	484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)

REIL Rwy 8 and 26 L
HIRL Rwys 8-26 and 13-31 L

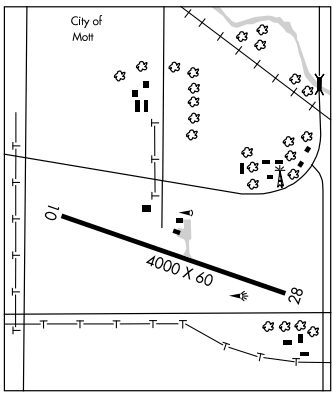
NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

MOHALL MUNI (HBC) 1 W UTC−6(−5DT) N48°46.10′ W101°32.22′ **BILLINGS**
1649 NOTAM FILE GFK **L–14F**
RWY 13–31: H3121X60 (ASPH–AFSC) S–12.5 LIRL **IAP**
RWY 13: P-line. **RWY 31:** Road.
AIRPORT REMARKS: Attended on call. For attendant and fuel call 701–756–7177/6640. Confirm snow removal and winter condition with arpt manager 701–756–7177. Rwy 13 has 5′ swale 200′ outbound thld. ACTIVATE LIRL Rwy 13–31—122.8.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **MINOT APP/DEP CON** 119.6 (Opr 24 hrs, from Mon 1300Z‡ thru Sat 0500Z‡. Sat and Sun 1300–0500Z‡), other hours ctc **MINNEAPOLIS CENTER APP/DEP CON** 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE MOT.
MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62′ W101°17.22′ 329° 32.1 NM to fld. 1691/13E. **HIWAS.**
COMM/NAV/WEATHER REMARKS: Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1200–1400Z‡.



MOTT MUNI (3P3) 1 S UTC−7(−6DT) N46°21.55′ W102°19.69′ **BILLINGS**
2413 **FUEL** 100LL NOTAM FILE GFK **L–14F**
RWY 10–28: H4000X60 (ASPH) S–12.5 MIRL
RWY 28: Road.
AIRPORT REMARKS: Unattended. Self svc fuel avbl 24 hrs with credit card. Deer on and invof arpt. Confirm winter conditions call 701–824–2030/2676/2552/2991 prior to use. Irregular snow removal. + 100′ twr left on farmstead 1800′ rgt of Rwy 28 thld. ACTIVATE MIRL Rwy 10–28—CTAF.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.
DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60′ W102°46.41′ 134° 35.3 NM to fld. 2520/14E. **HIWAS.**



NAPOLEON MUNI (5B5) 1 SE UTC−6(−5DT) N46°29.67′ W99°45.61′ **TWIN CITIES**
1983 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 12–30: H3200X60 (ASPH) S–6 LIRL
RWY 12: Trees.
RWY 08–26: 2500X80 (TURF)
RWY 08: Tree. **RWY 26:** Bank.
AIRPORT REMARKS: Unattended. For fuel after 2300Z‡ ctc city police on 701–754–2626 or during hours arpt manager 701–754–2226. Rwy 08–26 CLOSED Oct–Apr due to lack of snow removal. Deer on or invof arpt. Irregular snow removal. Confirm winter conditions with arpt manager during day on 701–754–2226 and evenings 701–754–2958. Rwy 12–30 asph sfc has numerous cracks and loose stones. Rwy 12–30 cultivated field 55′ left and right of rwy centerline. Arpt lgts opr dusk–0600Z‡. ACTIVATE LIRL Rwy 12–30 after 0600Z‡—CTAF.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.
BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 101° 40.7 NM to fld. 1841/12E. **HIWAS.**

AL-6052 (FAA)

RNAV (GPS) RWY 31
MOHALL MUNI (HBC)

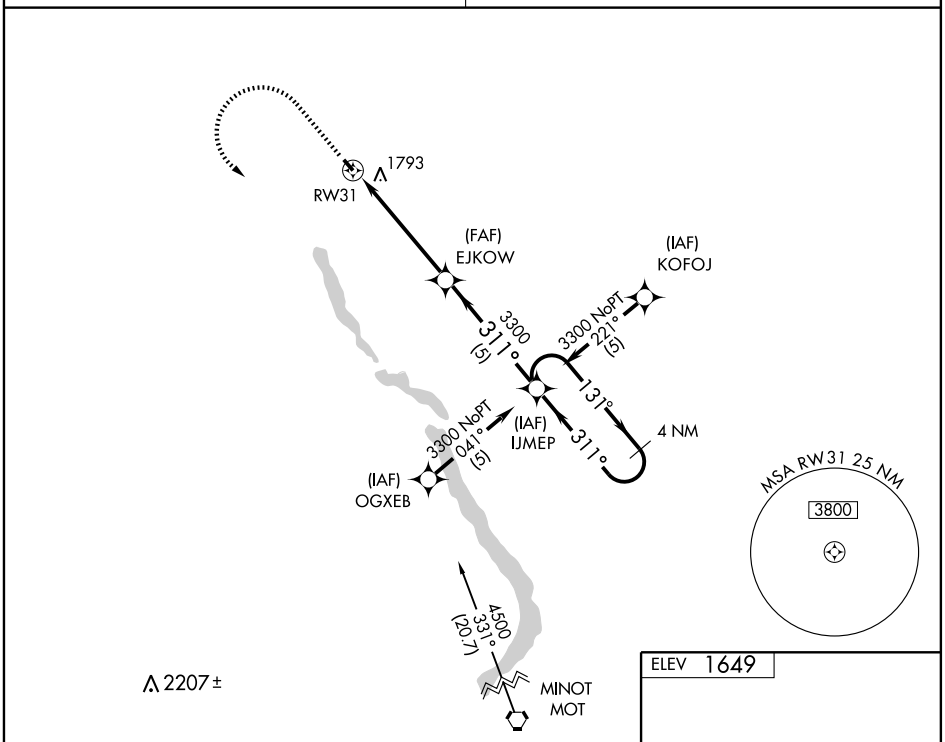
APP CRS	Rwy ldg	3121
311°	TDZE	1649
	Apt Elev	1649

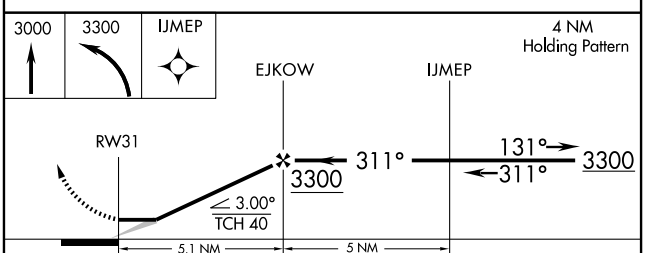
NA Use Minot Intl altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing left turn to 3300 direct IJMEP WP and hold.

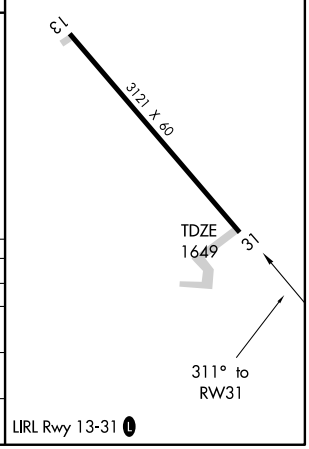
MINOT APP CON *
119.6 363.8

UNICOM
122.8 (CTAF) L





CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2180-1 531 (600-1)		2180-1½ 531 (600-1½)	NA
CIRCLING	2240-1 591 (600-1)		2240-1½ 591 (600-1½)	NA



NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

AL-6052 (FAA)

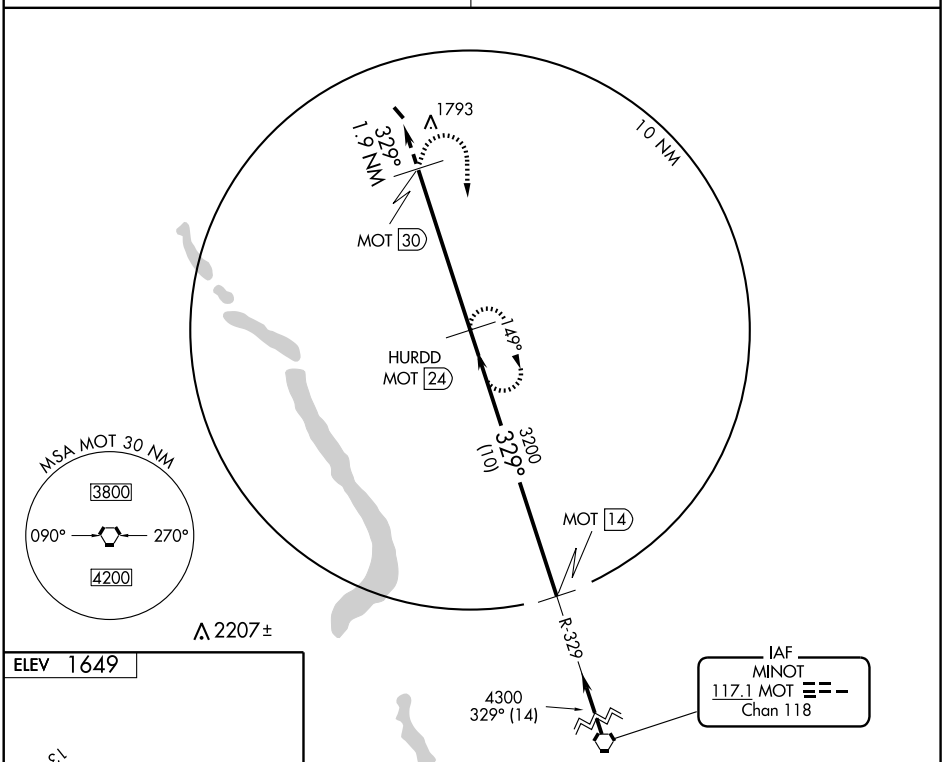
VOR/DME RWY 31
MOHALL MUNI (HBC)

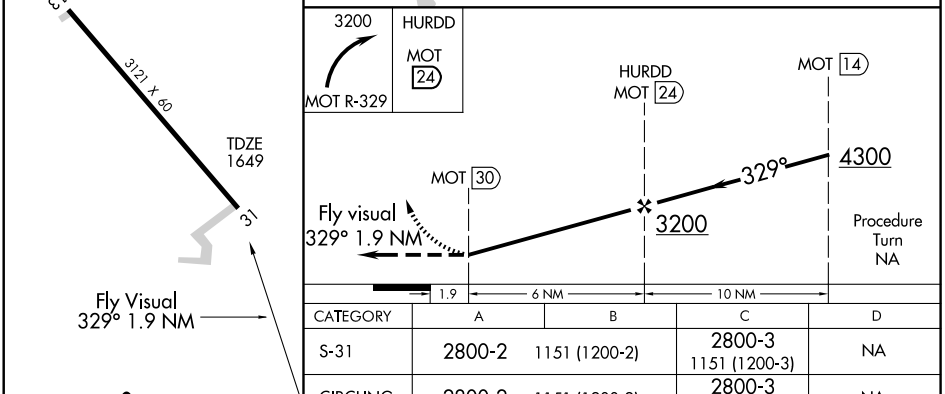
VORTAC MOT	APP CRS	Rwy ldg	3121
117.1	329°	TDZE	1649
Chan 118		Apt Elev	1649

NA Use Minot Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 3200 via MOT R-329 to HURDD 24 DME and hold.

MINOT APP CON ★	UNICOM
119.6 363.8	122.8 (CTAF) L



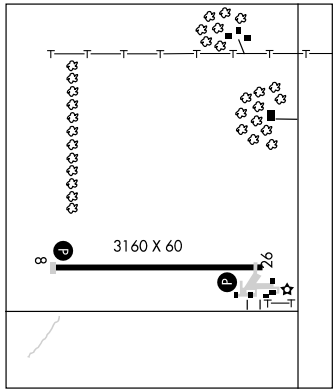


CATEGORY	A	B	C	D
S-31	2800-2	1151 (1200-2)	2800-3 1151 (1200-3)	NA
CIRCLING	2800-2	1151 (1200-2)	2800-3 1151 (1200-3)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

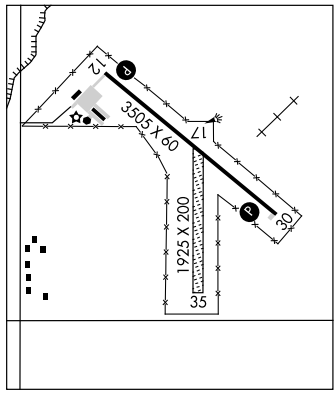
NC-1, 21 OCT 2010 to 18 NOV 2010

NORTHWOOD MUNI–VINCE FLD (4V4) 1 SW UTC−6(−5DT) N47°43.45′ W97°35.43′ **TWIN CITIES**
1117 B S4 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 08–26: H3160X60 (ASPH) S–12.5 MIRL **IAP**
RWY 08: PAPI(P2L)—GA 3.0° TCH 26′. Treebelt. Rgt tfc.
RWY 26: PAPI(P2L)—GA 3.0° TCH 28′. Road.
AIRPORT REMARKS: Attended Mon–Sat 1400–2300Z‡. For svcs after hrs call arpt manager on 701–587–5171. CAUTION: Rwy 08–26 may be snow covered during winter months. Confirm winter conditions with arpt manager, 701–587–5171/cell 218–779–1242. Twy reflectors only. ACTIVATE MIRL Rwy 08–26 and PAPI Rwy 08 and Rwy 26—CTAF.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **GRAND FORKS APP/DEP CON** 118.1
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 221° 21.4 NM to fld. 841/9E. **HIWAS**



NOSON N46°41.30′ W102°42.75′ NOTAM FILE DIK. **BILLINGS**
NDB (LOM) 353 DI 320° 7.5 NM to Dickinson–Theodore Roosevelt Rgnl. Unmonitored.

OAKES MUNI (2D5) 2 N UTC−6(−5DT) N46°10.39′ W98°04.79′ **TWIN CITIES**
1335 B **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 12–30: H3505X60 (ASPH) S–12.5 MIRL **IAP**
RWY 12: PAPI(P2L)—GA 3.0° TCH 27′. Sprinkler system.
RWY 30: PAPI(P2L)—GA 3.0° TCH 27′.
RWY 17–35: 1925X200 (TURF)
RWY 17: Pole. **RWY 35:** Road.
AIRPORT REMARKS: Attended May–Oct Mon–Fri 1400–2300Z‡. For attendant after hrs call 701–742–3145. For fuel call city police 701–742–3145/2172. Rwy 17–35 CLOSED winter months due to lack of snow removal. Confirm winter conditions with arpt manager before use, call 701–742–3145/701–742–2293/2231/2137/2172 (Police). Rwy 17–35 grass surface clumpy. ACTIVATE MIRL Rwy 12–30 and PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.675 (701) 742–3991.
COMMUNICATIONS: CTAF 122.9
MINNEAPOLIS CENTER APP/DEP CON 124.2
RADIO AIDS TO NAVIGATION: NOTAM FILE ABR.
ABERDEEN (H) VOR/DME 113.0 ABR Chan 77 N45°25.04′ W98°22.12′ 008° 46.9 NM to fld. 1301/7E.



PARK RIVER–W C SKJERVEN FLD (Y37) 1 W UTC−6(−5DT) N48°23.65′ W97°46.85′ **TWIN CITIES**
1104 B S4 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 12–30: H3100X60 (ASPH) S–12 MIRL
RWY 12: PAPI(P2L)—GA 3.0° TCH 25′. Road. **RWY 30:** PAPI(P2L)—GA 3.0° TCH 25′. Trees.
RWY 03–21: 2500X100 (TURF)
RWY 03: Trees. **RWY 21:** Road.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. For attendant after hrs call 701–284–7804 or City Police 701–284–6644. For fuel ctc arpt manager on 701–284–7303 or after hrs on 701–284–7804 or 331–1110. Rwy 03–21 CLOSED winter months due to lack of snow removal. Confirm winter conditions after major storm with arpt manager on 701–284–7303/7804/6644/6755 or 331–1110. Deer on and invof arpt. Rwy 12–30 and Rwy 03–21 soft shoulders. Rwy 03 and Rwy 21 dalgt boundary markers, 3′ metal fixtures red and white. ACTIVATE MIRL Rwy 12–30, and PAPI Rwy 12 and Rwy 30—CTAF. Rotating bcn OTS indef.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 309° 35.6 NM to fld. 841/9E.
HIWAS.

APP CRS	Rwy ldg	3160
262°	TDZE	1117
	Apt Elev	1117

RNAV (GPS) RWY 26
NORTHWOOD MUNI-VINCE FIELD (4V4)

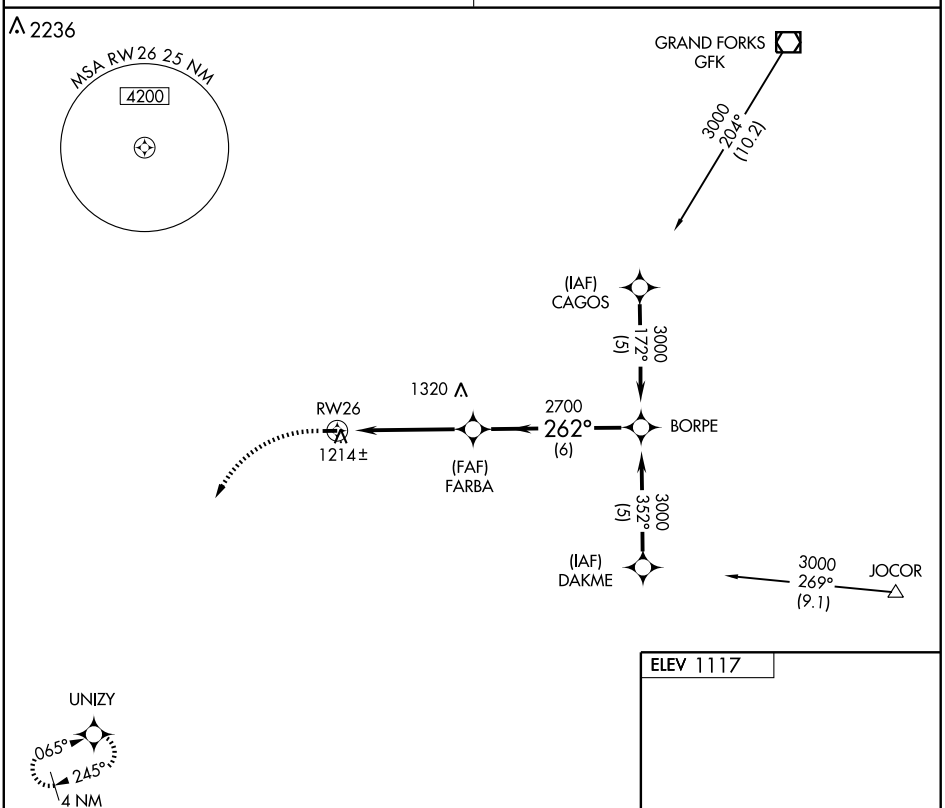
NA

DME/DME RNP- 0.3 NA.
Use Grand Forks Intl altimeter setting.
Procedure NA at night.

MISSED APPROACH: Climb to 1800 then climbing left turn to 3500 direct UNIZY WP and hold.

GRAND FORKS APP CON
118.1 318.1

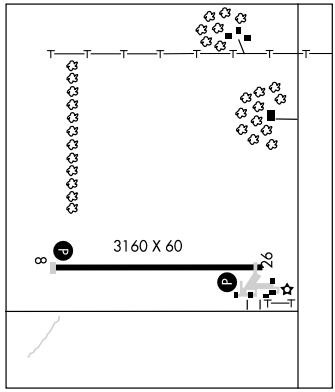
UNICOM
122.8 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1660-1 543 (600-1)		NA	
CIRCLING	1720-1 603 (700-1)		NA	

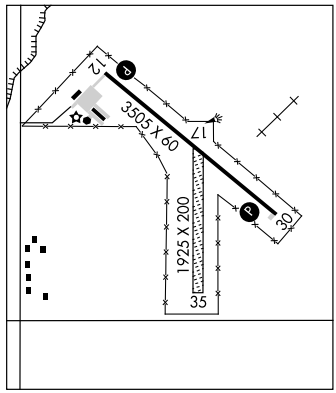
NC-1, 21 OCT 2010 to 18 NOV 2010

NORTHWOOD MUNI–VINCE FLD (4V4) 1 SW UTC−6(−5DT) N47°43.45′ W97°35.43′ **TWIN CITIES**
1117 B S4 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 08–26: H3160X60 (ASPH) S–12.5 MIRL **IAP**
RWY 08: PAPI(P2L)—GA 3.0° TCH 26′. Treebelt. Rgt tfc.
RWY 26: PAPI(P2L)—GA 3.0° TCH 28′. Road.
AIRPORT REMARKS: Attended Mon–Sat 1400–2300Z‡. For svcs after hrs call arpt manager on 701–587–5171. CAUTION: Rwy 08–26 may be snow covered during winter months. Confirm winter conditions with arpt manager, 701–587–5171/cell 218–779–1242. Twy reflectors only. ACTIVATE MIRL Rwy 08–26 and PAPI Rwy 08 and Rwy 26—CTAF.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **GRAND FORKS APP/DEP CON** 118.1
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 221° 21.4 NM to fld. 841/9E. **HIWAS**



NOSON N46°41.30′ W102°42.75′ NOTAM FILE DIK. **BILLINGS**
NDB (LOM) 353 DI 320° 7.5 NM to Dickinson–Theodore Roosevelt Rgnl. Unmonitored.

OAKES MUNI (2D5) 2 N UTC−6(−5DT) N46°10.39′ W98°04.79′ **TWIN CITIES**
1335 B **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 12–30: H3505X60 (ASPH) S–12.5 MIRL **IAP**
RWY 12: PAPI(P2L)—GA 3.0° TCH 27′. Sprinkler system.
RWY 30: PAPI(P2L)—GA 3.0° TCH 27′.
RWY 17–35: 1925X200 (TURF)
RWY 17: Pole. **RWY 35:** Road.
AIRPORT REMARKS: Attended May–Oct Mon–Fri 1400–2300Z‡. For attendant after hrs call 701–742–3145. For fuel call city police 701–742–3145/2172. Rwy 17–35 CLOSED winter months due to lack of snow removal. Confirm winter conditions with arpt manager before use, call 701–742–3145/701–742–2293/2231/2137/2172 (Police). Rwy 17–35 grass surface clumpy. ACTIVATE MIRL Rwy 12–30 and PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.675 (701) 742–3991.
COMMUNICATIONS: CTAF 122.9
MINNEAPOLIS CENTER APP/DEP CON 124.2
RADIO AIDS TO NAVIGATION: NOTAM FILE ABR.
ABERDEEN (H) VOR/DME 113.0 ABR Chan 77 N45°25.04′ W98°22.12′ 008° 46.9 NM to fld. 1301/7E.



PARK RIVER–W C SKJERVEN FLD (Y37) 1 W UTC−6(−5DT) N48°23.65′ W97°46.85′ **TWIN CITIES**
1104 B S4 **FUEL** 100LL NOTAM FILE GFK **L–14G**
RWY 12–30: H3100X60 (ASPH) S–12 MIRL
RWY 12: PAPI(P2L)—GA 3.0° TCH 25′. Road. **RWY 30:** PAPI(P2L)—GA 3.0° TCH 25′. Trees.
RWY 03–21: 2500X100 (TURF)
RWY 03: Trees. **RWY 21:** Road.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡. For attendant after hrs call 701–284–7804 or City Police 701–284–6644. For fuel ctc arpt manager on 701–284–7303 or after hrs on 701–284–7804 or 331–1110. Rwy 03–21 CLOSED winter months due to lack of snow removal. Confirm winter conditions after major storm with arpt manager on 701–284–7303/7804/6644/6755 or 331–1110. Deer on and invof arpt. Rwy 12–30 and Rwy 03–21 soft shoulders. Rwy 03 and Rwy 21 dalgt boundary markers, 3′ metal fixtures red and white. ACTIVATE MIRL Rwy 12–30, and PAPI Rwy 12 and Rwy 30—CTAF. Rotating bcn OTS indef.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.
GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29′ W97°11.12′ 309° 35.6 NM to fld. 841/9E.
HIWAS.

APP CRS	Rwy ldg	3505
305°	TDZE	1335
	Apt Elev	1335

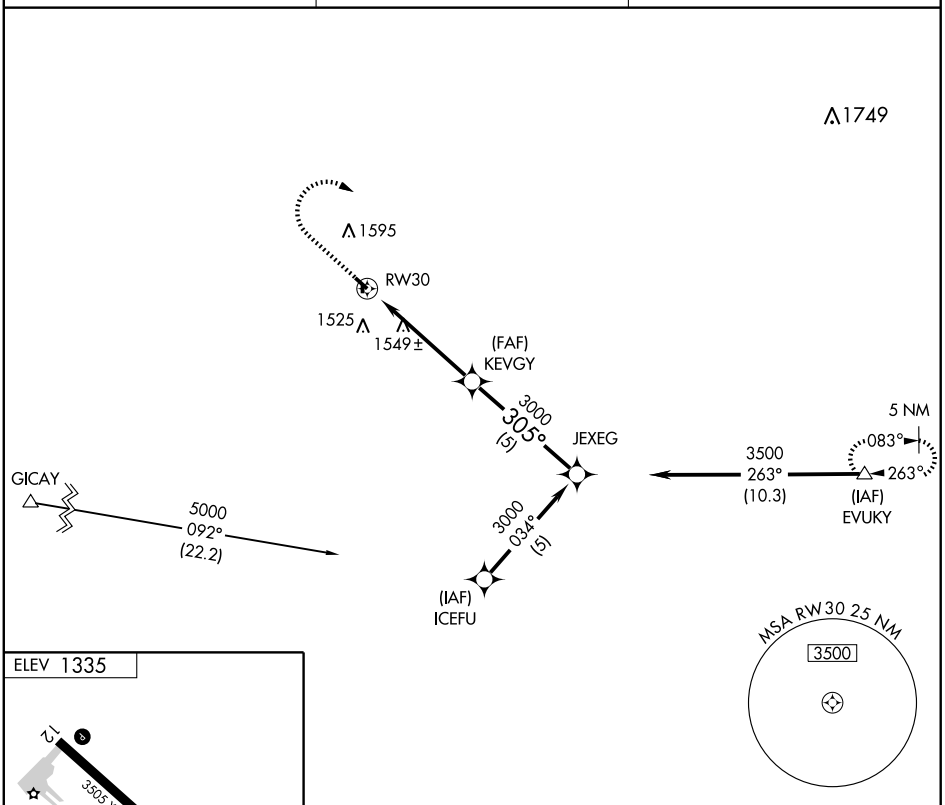
GPS RWY 30
OAKES MUNI (2D5)

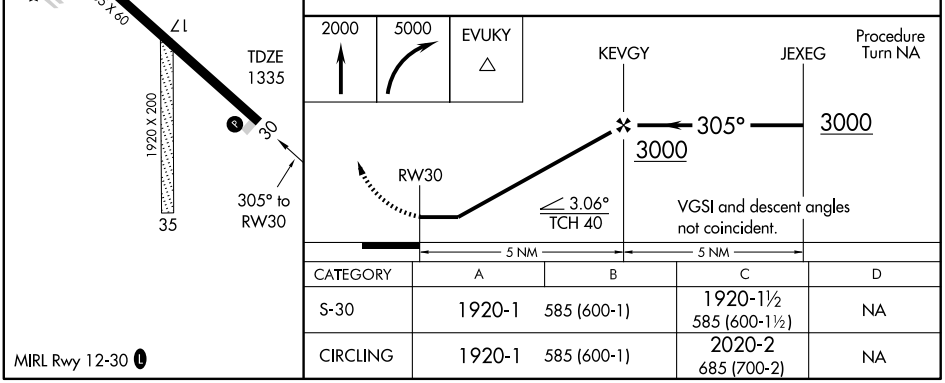
T
A NA

Use Aberdeen altimeter setting.

MISSED APPROACH: Climb to 2000 then climbing right turn to 5000 direct EVUKY WP and hold.

AWOS-3	MINNEAPOLIS CENTER	CTAF
118.675	124.2 270.3	122.9 L





CATEGORY	A	B	C	D
S-30	1920-1	585 (600-1)	1920-1½ 585 (600-1½)	NA
CIRCLING	1920-1	585 (600-1)	2020-2 685 (700-2)	NA

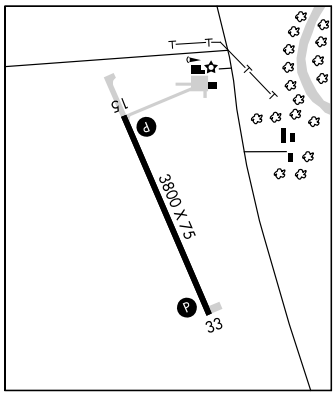
MIRL Rwy 12-30 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

PARSHALL–HANKINS (Y74) 1 S UTC−6(−5DT) N47°56.18′ W102°08.53′ **BILLINGS**
2031 B **FUEL** 100LL NOTAM FILE GFK **L–14F**
RWY 12–30: H3200X60 (ASPH) S–12 MIRL
AIRPORT REMARKS: Attended on call. For attendance schedule May–Sep call arpt manager 701–862–3265. Self svc 24 hr credit card fueling system avbl. Deer on or invof arpt. Rwy 12–30 confirm snow removal at 701–898–4113, or city hall 701–862–3459, or city water plant manager 701–862–3510. Twy marked with reflectors only. MIRL Rwy 12–30 operates continuous at low setting as PCL OTS.
COMMUNICATIONS: CTAF 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′
094° 67.4 NM to fld. 2372/12E. **HIWAS.**

PEMBINA MUNI (PMB) 1 S UTC−6(−5DT) N48°56.55′ W97°14.45′ **TWIN CITIES**
795 **FUEL** 100LL, JET A AOE NOTAM FILE GFK **L–14G**
RWY 15–33: H3800X75 (ASPH) S–12.5 MIRL **IAP**
RWY 15: PAPI(P2L)—GA 3.0° TCH 26′. Road.
RWY 33: PAPI(P2L)—GA 3.0° TCH 26′.
AIRPORT REMARKS: Attended on call. Fuel svc 24 hr self service credit card system. For svcs ctc arpt manager 218–843–5084/2581. Irregular snow removal. Confirm winter conditions before use 218–843–5084/2581 or 701–825–6465–6421. Rwy 15 +60′ trees 2000′ from thld on centerline; apch ratio 30:1. After 0600Z‡ ACTIVATE MIRL Rwy 15–33 and PAPI for Rwy 15 and Rwy 33—CTAF. Flight Notification Service (ADCUS) avbl.
COMMUNICATIONS: CTAF/UNICOM 122.8
MINNEAPOLIS CENTER APP/DEP CON 132.15
RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.
HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15′
W97°07.03′ 303° 6.6 NM to fld. 800/9E.



PLAZA

TRULSON FLD (Y99) 1 NE UTC−6(−5DT) N48°01.83′ W101°57.19′ **BILLINGS**
2105 NOTAM FILE GFK
RWY 08–26: 3200X60 (TURF) LIRL
RWY 08: Tree. **RWY 26:** Road.
AIRPORT REMARKS: Unattended. Rwy 08–26 turf surface has numerous large holes, grass clumps, and rolling, N half smoother than rest. Provided all traffic operations are conducted to N of Rwy 08–26, all turns to rgt when lndg/departing Rwy 26 and all turns to left when lndg/departing Rwy 08. Land fill 2500′ from Rwy 08 thld on centerline–birds possible. Rwy 08 +70′ trees 2000′ from thld—100′ right of extended centerline; apch ratio 28:1. Snow removal irregular, confirm winter conditions with chairman call 701–453–3387; prior request only. Snow removal limited to emergencies. For LIRL Rwy 08–26 call 701–497–3791/3394/3753 or 453–3387.
COMMUNICATIONS: CTAF 122.9

PRUETZ MUNI (See KULM)

RED RIVER N47°57.43′ W97°24.35′ NOTAM FILE GFK. **TWIN CITIES**
(H) TACAN Chan 111 RDR (116.4) at Grand Forks AFB. 951/6E. No NOTAM MP Fri 1200–1500Z‡. **H–2H, L–14G**

RICHARDTON (4E8) 2 NW UTC−6(−5DT) N46°53.75′ W102°21.29′ **BILLINGS**
2492 NOTAM FILE GFK
RWY 11–29: 4000X120 (TURF)
AIRPORT REMARKS: Unattended. 24 hr PPR call arpt manager 701–974–3315. Cattle grazing on rwy during Sep–Dec period. For winter condition call arpt manager 701–974–3315, or city auditor 974–3399 as no snow removal is avbl, confirm prior to use. Rwy 11–29 center 20′ rough entire length of rwy. Rwy 11–29 turf rwy surface clumpy and extremely rough. 120′ lgtd wind generator tower 800′ right of centerline at thld for Rwy 29. Cultivated fld at rwy ends. Rwy 11–29 ends/edges marked with 2′ metal dalgt markers.
COMMUNICATIONS: CTAF 122.9

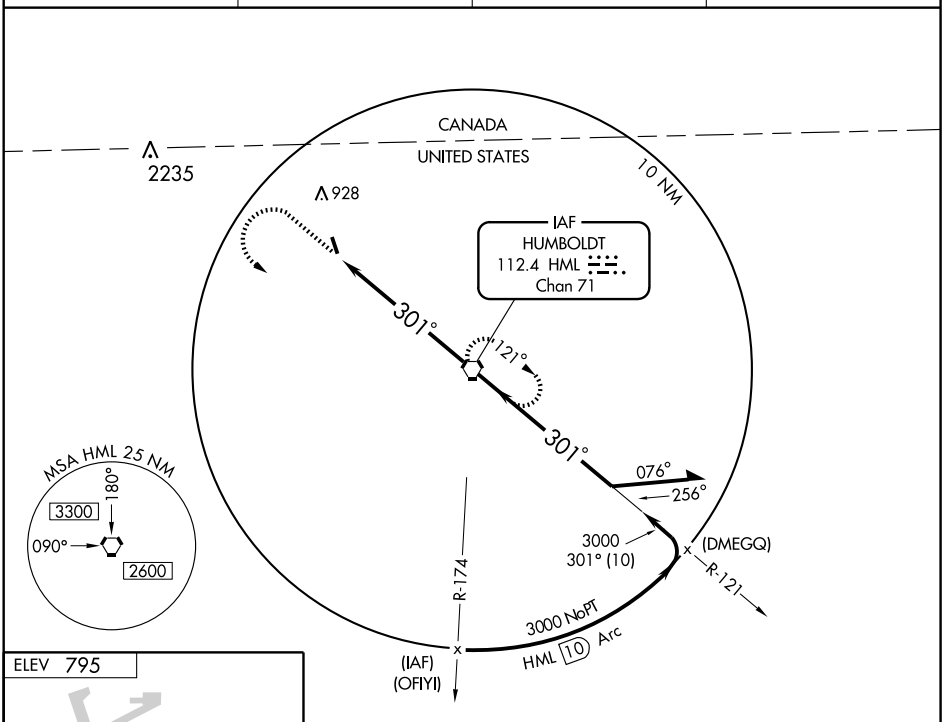
VORTAC HML 112.4 Chan 71	APP CRS 301°	Rwy ldg 3800 TDZE 795 Apt Elev 795

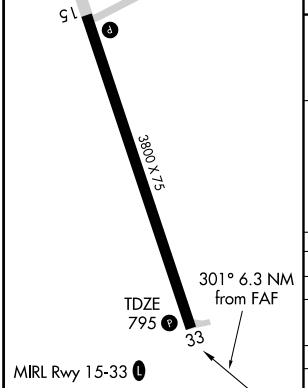
VOR or GPS RWY 33

PEMBINA MUNI (PMB)

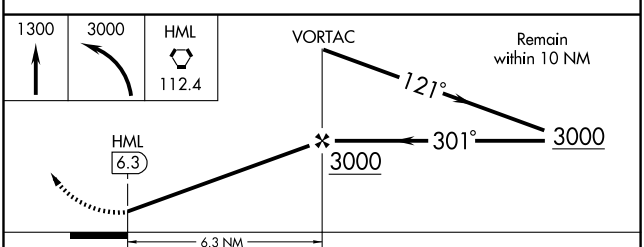
NA Obtain local altimeter setting on CTAF; when not received use Hallock altimeter setting.	MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct HML VORTAC and hold.

HALLOCK AWOS-3	MINNEAPOLIS CENTER	PRINCETON RADIO	UNICOM
126.475	132.15 269.6	122.1R	122.8 (CTAF) L





FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06



CATEGORY	A	B	C	D
S-33	1180-1 385 (400-1)			NA
CIRCLING	1200-1 405 (500-1)	1300-1 505 (600-1)	1300-1½ 505 (600-1½)	NA
HALLOCK ALTIMETER SETTING MINIMUMS				
S-33	1220-1 425 (500-1)		1220-1¼ 425 (500-1¼)	NA
CIRCLING	1260-1 465 (500-1)	1360-1 565 (500-1)	1360-1½ 565 (500-1½)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

RIVERDALE

GARRISON DAM RECREATIONAL AIRPARK (37N) 1 SW UTC−6(−5DT) N47°28.98′ W101°24.53′ BILLINGS

1723 NOTAM FILE GFK

RWY 11–29: 3200X60 (DIRT–GRVL) S–4

RWY 11: Trees. Rgt tfc. **RWY 29:** Hill.

AIRPORT REMARKS: Unattended. Arpt CLOSED Oct–May, arpt surfaces soft when wet. No snow removal avbl. Deer and birds on and invof arpt. Rwy 11–29 numerous small gravel and rocks on surface. Rwy 11—30′ drop off 450′ from thld. Rwy 29—5′ drop off 420′ from thld. Rwy 11–29 +15′ dirt trail 40′ from centerline on N side of rwy 500′ inbound Rwy 11 thld. Rwy 11–29 surface limited to use only by acft gross weight under 4000 pounds. Rwy 11–29 NSTD markings, edges and thld marked with black/white cones.

COMMUNICATIONS: CTAF 122.9

ROBERTSON FLD (See LANGDON)

ROLETTE (2H9) 1 W UTC−6(−5DT) N48°39.92′ W99°51.19′ TWIN CITIES

1620 NOTAM FILE GFK L–14G

RWY 15–33: H3700X40 (ASPH) S–8 LIRL (NSTD)

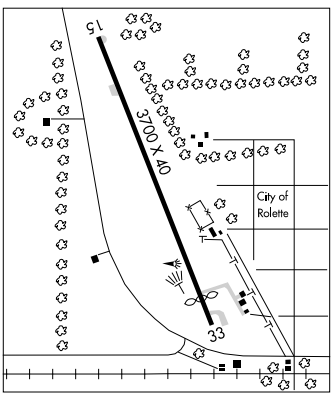
RWY 15: Trees. **RWY 33:** Thld dsplcd 300′. Road

AIRPORT REMARKS: Unattended. Snow removal irregular, confirm winter conditions with arpt manager call 701–246–3700. Waterfowl invof arpt. Low flying military acft invof arpt. Rwy 15 +21′ road violates transitional surface on W side of rwy protection zone. Rwy 15 +50′ p–line 1500′ from thld; 225′ left of extended centerline; apch ratio 26:1. Rwy 33 +20′ pole—left 520′ from thld 150′ right of extended centerline; apch ratio 16:1. Rwy 15–33 LIRL NSTD space 20′ from rwy edge and 2′ higher than rwy elevation. ACTIVATE LIRL Rwy 15–33—CTAF.

COMMUNICATIONS: CTAF 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 305° 50.1 NM to fld. 1448/7E.



ROLLA MUNI (Ø6D) 2 N UTC−6(−5DT) N48°53.07′ W99°37.25′ TWIN CITIES

1823 B S2 **FUEL** 100LL, JET A NOTAM FILE GFK L–14G IAP

RWY 14–32: H4300X75 (ASPH) S–12.5 MIRL

RWY 14: PAPI(P2L)—GA 3.0° TCH 25′. Road.

RWY 32: PAPI(P2L)—GA 3.0° TCH 25′. Trees.

RWY 07–25: 2400X95 (TURF) 0.4% up SW

RWY 25: Road

AIRPORT REMARKS: Attended Mon–Fri dawn–dusk. For attendant after hrs call 701–477–5145/6780. 24 hr self service credit card fuel avbl. Waterfowl and birds on and invof arpt. CAUTION: low flying military acft invof arpt. Rwy 07–25 CLOSED winter months due to lack of snow removal. For snow removal and arpt conditions call arpt manager 701–477–5145/6780/0914. ACTIVATE MIRL Rwy 14–32 and PAPI Rwy 14 and Rwy 32—CTAF.

WEATHER DATA SOURCES: AWOS–3 118.125 (701) 447–0055.

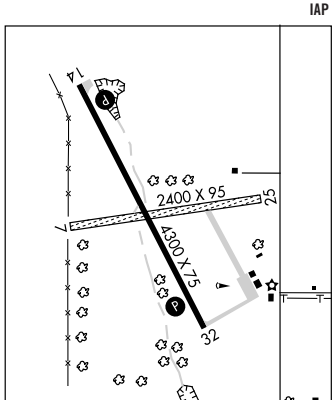
COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.65 (GRAND FORKS RADIO)

MINNEAPOLIS CENTER APP/DEP CON 127.6

RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 322° 54.1 NM to fld. 1448/7E.



APP CRS	Rwy ldg	4300
322°	TDZE	1818
	Apt Elev	1822

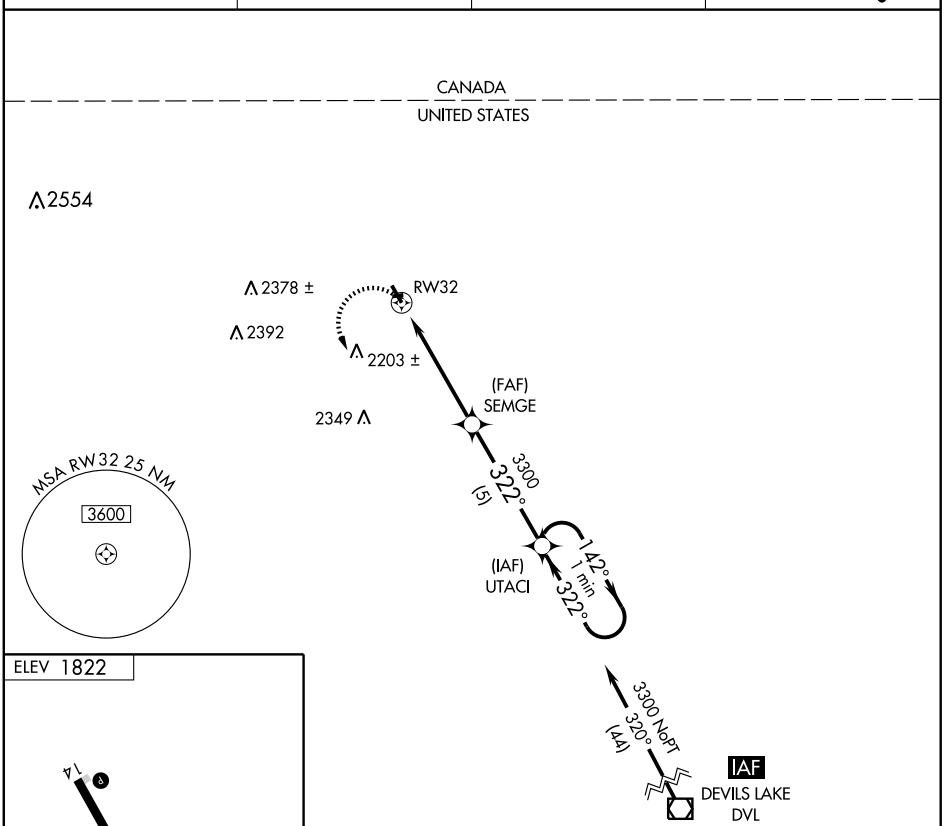
GPS RWY 32
ROLLA MUNI (Ø6D)

NA

Use Devils Lake altimeter setting.
IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing left turn to 4000 direct UTACI WP and hold.

AWOS-3	DEVILS LAKE AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.125	125.875	127.6 279.6	122.8 (CTAF) L



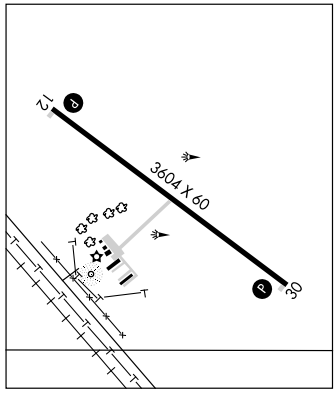
CATEGORY	A	B	C	D
S-32	2340-1	522 (600-1)	2340-1½ 522 (600-1½)	2340-1¾ 522 (600-1¾)
CIRCLING	2460-1	638 (700-1)	2480-1¾ 658 (700-1¾)	2660-2¾ 838 (900-2¾)

MIRL Rwy 14-32 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

RUGBY MUNI (RUG) 2 NW UTC−6(−5DT) N48°23.42′ W100°01.46′ **TWIN CITIES**
1548 B **FUEL** 100LL NOTAM FILE GFK **L–14F**
RWY 12–30: H3604X60 (ASPH) S–12.5 MIRL 0.4% up SE **IAP**
RWY 12: PAPI(P2L)—GA 3.0° TCH 27′. P-line.
RWY 30: PAPI(P2L)—GA 3.0° TCH 20′. Road.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat and Sun on call. For attendant Sat–Sun call 701–776–5171/5176/5746/6715/5523. Self svc 24 hr credit card fuel system avbl. Deer and birds on and invof arpt. Waterfowl in wetlands Apr–May and Sep–Nov 3000′ outbound Rwy 30. Rwy 12–30 confirm winter rwy conditions with arpt manager 701–776–5171/5176 prior to use. ACTIVATE MIRL Rwy 12–30, and PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.475 (701) 776–6100.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 284° 47.5 NM to fld. 1448/7E.
NDB (MHW) 212 RUG N48°23.27′ W100°01.62′ at fld. NOTAM FILE GFK.
COMM/NAV/WEATHER REMARKS: Communications provided by Grand Forks Radio on frequency 122.2 (Minot RCO).



SABON N46°51.77′ W98°34.84′ NOTAM FILE JMS. **TWIN CITIES**
NDB (LOM) 395 JM 307° 5.7 NM to Jamestown Rgnl.

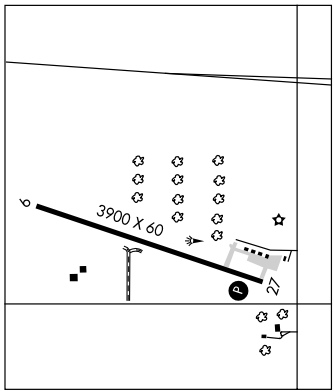
ST THOMAS MUNI (4S5) 1 NE UTC−6(−5DT) N48°37.58′ W97°26.35′ **TWIN CITIES**
837 S2 NOTAM FILE GFK
RWY 17–35: H2600X50 (ASPH) S–5 LIRL (NSTD)
RWY 17: Thld dsplcd 280′. Trees. **RWY 35:** Thld dsplcd 70′. Trees.
AIRPORT REMARKS: Attended May–Sept dalgt hrs, Oct–Apr Mon–Fri on call. For arpt attendant during other hrs call 701–257–6629. Rwy 17–35 expect turbulence when executing cross–wind ldgs. Deer and birds on and invof arpt. Confirm winter condition and snow removal with arpt manager call 701–257–6629/6830/6630 or cell 520–1597/2903. Rwy 17–35 NSTD LIRL due to fixtures and located 15′ from rwy edge. Rwy 17 dsplcd thld marked with green lgts–ngt ops only. Rwy 35 dsplcd thld marked with green lgts–ngt ops only. ACTIVATE LIRL Rwy 17–35—122.8.
COMMUNICATIONS: CTAF 122.9

SKY HAVEN (See ENDERLIN)

SLOULIN FLD INTL (See WILLISTON)

STANDING ROCK (See FORT YATES)

STANLEY MUNI (Ø8D) 1 SW UTC−6(−5DT) N48°18.05′ W102°24.38′ **BILLINGS**
2245 B S2 **FUEL** 100LL, JET A NOTAM FILE GFK **L–14F**
RWY 09–27: H3900X60 (ASPH) S–14 MIRL **IAP**
RWY 09: Pole. **RWY 27:** PAPI(P2L)—GA 3.0° TCH 32′. Road.
AIRPORT REMARKS: Attended on call. Self svc 24 hr credit card fueling system avbl. For arpt attendance schedule call 701–628–2110/629–0345. Jet A fuel unavbl. Deer and birds on and invof arpt. Due to snow Nov–Mar, call 701–628–2110 or 629–0345 to check on rwy condition prior to use. Loose gravel in the refuel area. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 09–27 and PAPI Rwy 27—CTAF.
WEATHER DATA SOURCES: AWOS–3 121.1 (701) 628–1737.
COMMUNICATIONS: CTAF 122.9
MINNEAPOLIS CENTER APP/DEP CON 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 074° 54.0 NM to fld. 2372/12E. **HIWAS.**



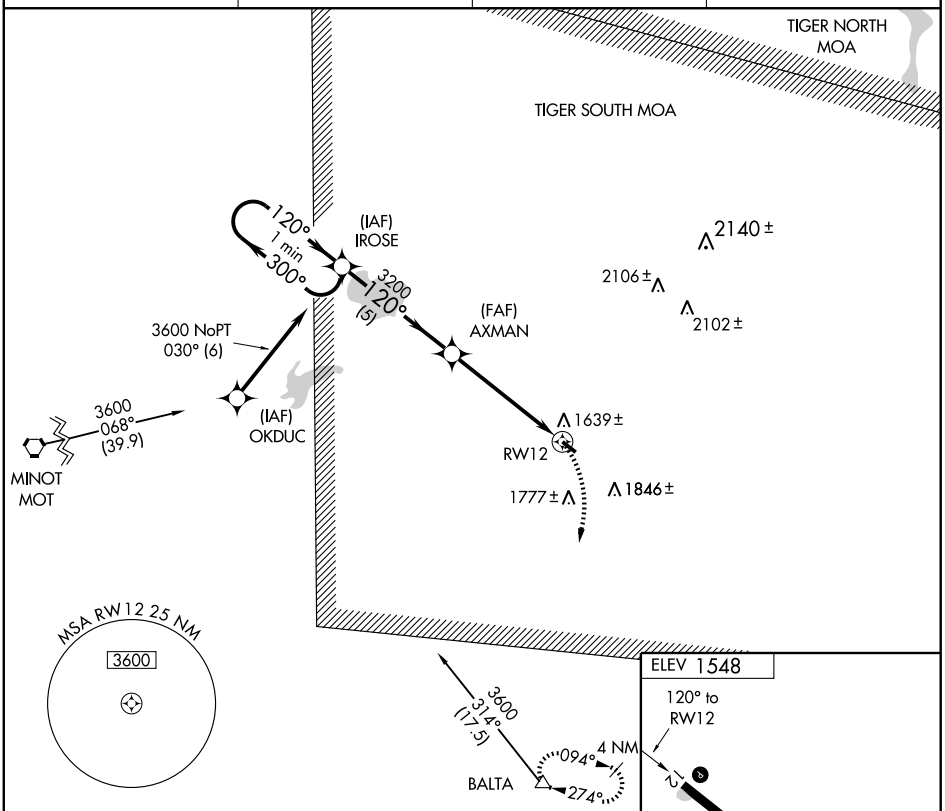
APP CRS	Rwy ldg	3604
120°	TDZE	1540
	Apt Elev	1548

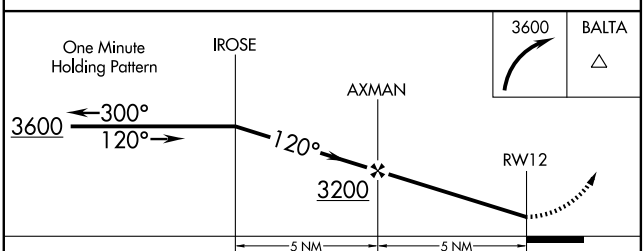
GPS RWY 12
RUGBY MUNI (RUG)

NA Use Devils Lake altimeter setting.

MISSED APPROACH: Climbing right turn to 3600 direct BALTA WP and hold.

AWOS-3	DEVILS LAKE AWOS-3	GRAND FORKS RADIO	UNICOM
118.475	125.875	122.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-12	2020-1	480 (500-1)	2020-1¼ 480 (500-1¼)	NA
CIRCLING	2160-1	612 (700-1)	2160-1¾ 612 (700-1¾)	NA

MIRL Rwy 12-30 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	3604
301°	TDZE	1548
	Apt Elev	1548

GPS RWY 30
RUGBY MUNI (RUG)

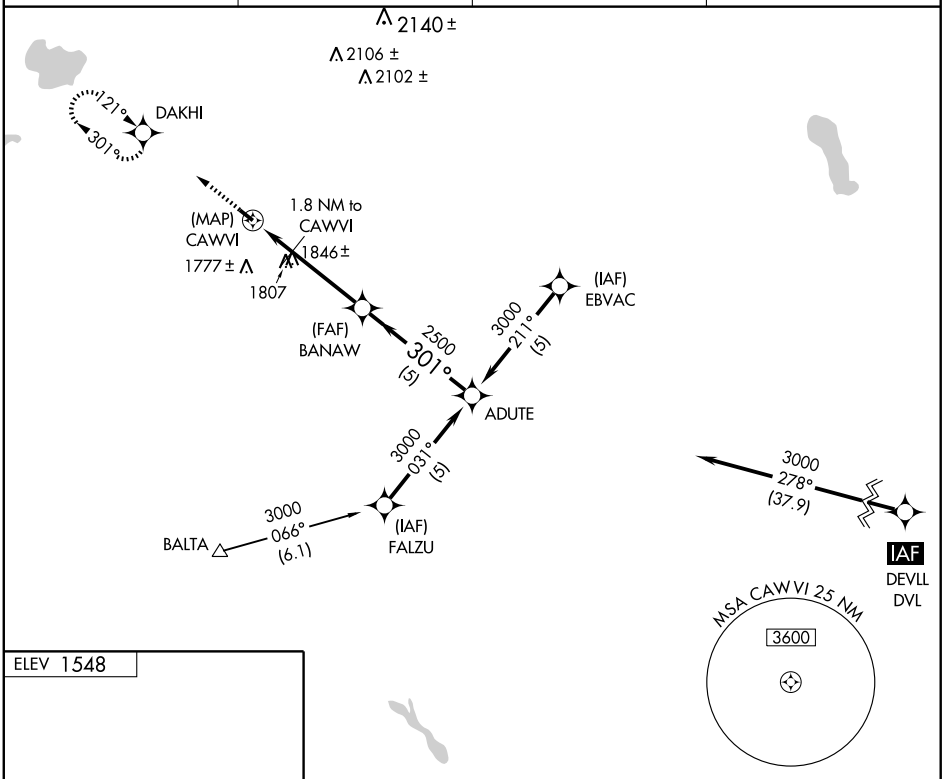
NA

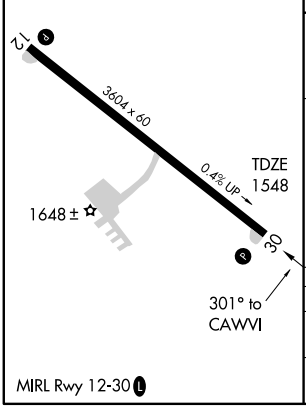
Use Devils Lake altimeter setting.

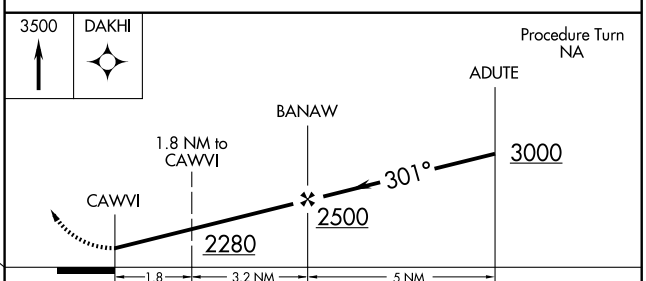
IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climb to 3500 direct DAKHI WP and hold.

AWOS-3	DEVILS LAKE AWOS-3	GRAND FORKS RADIO	UNICOM
118.475	125.875	122.2	122.8 (CTAF) L





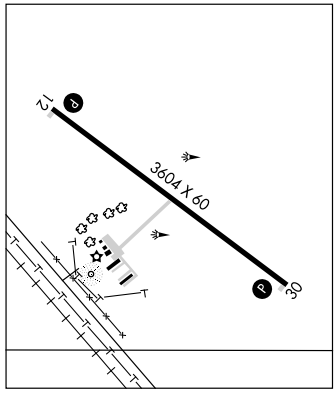


CATEGORY	A	B	C	D
S-30	2080-1	532 (600-1)	2080-1½ 532 (600-1½)	NA
CIRCLING	2140-1	592 (600-1)	2140-1½ 592 (600-1½)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

RUGBY MUNI (RUG) 2 NW UTC−6(−5DT) N48°23.42′ W100°01.46′ **TWIN CITIES**
1548 B **FUEL** 100LL NOTAM FILE GFK **L–14F**
RWY 12–30: H3604X60 (ASPH) S–12.5 MIRL 0.4% up SE **IAP**
RWY 12: PAPI(P2L)—GA 3.0° TCH 27′. P-line.
RWY 30: PAPI(P2L)—GA 3.0° TCH 20′. Road.
AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat and Sun on call. For attendant Sat–Sun call 701–776–5171/5176/5746/6715/5523. Self svc 24 hr credit card fuel system avbl. Deer and birds on and invof arpt. Waterfowl in wetlands Apr–May and Sep–Nov 3000′ outbound Rwy 30. Rwy 12–30 confirm winter rwy conditions with arpt manager 701–776–5171/5176 prior to use. ACTIVATE MIRL Rwy 12–30, and PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.475 (701) 776–6100.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE DVL.
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91′ W98°54.75′ 284° 47.5 NM to fld. 1448/7E.
NDB (MHW) 212 RUG N48°23.27′ W100°01.62′ at fld. NOTAM FILE GFK.
COMM/NAV/WEATHER REMARKS: Communications provided by Grand Forks Radio on frequency 122.2 (Minot RCO).



SABON N46°51.77′ W98°34.84′ NOTAM FILE JMS. **TWIN CITIES**
NDB (LOM) 395 JM 307° 5.7 NM to Jamestown Rgnl.

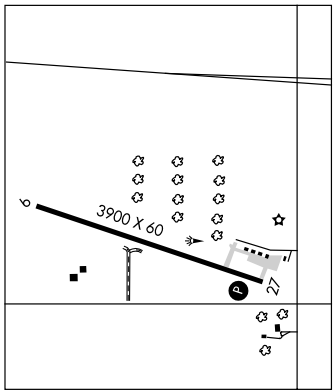
ST THOMAS MUNI (4S5) 1 NE UTC−6(−5DT) N48°37.58′ W97°26.35′ **TWIN CITIES**
837 S2 NOTAM FILE GFK
RWY 17–35: H2600X50 (ASPH) S–5 LIRL (NSTD)
RWY 17: Thld dsplcd 280′. Trees. **RWY 35:** Thld dsplcd 70′. Trees.
AIRPORT REMARKS: Attended May–Sept dalgt hrs, Oct–Apr Mon–Fri on call. For arpt attendant during other hrs call 701–257–6629. Rwy 17–35 expect turbulence when executing cross–wind ldgs. Deer and birds on and invof arpt. Confirm winter condition and snow removal with arpt manager call 701–257–6629/6830/6630 or cell 520–1597/2903. Rwy 17–35 NSTD LIRL due to fixtures and located 15′ from rwy edge. Rwy 17 dsplcd thld marked with green lgts–ngt ops only. Rwy 35 dsplcd thld marked with green lgts–ngt ops only. ACTIVATE LIRL Rwy 17–35—122.8.
COMMUNICATIONS: CTAF 122.9

SKY HAVEN (See ENDERLIN)

SLOULIN FLD INTL (See WILLISTON)

STANDING ROCK (See FORT YATES)

STANLEY MUNI (Ø8D) 1 SW UTC−6(−5DT) N48°18.05′ W102°24.38′ **BILLINGS**
2245 B S2 **FUEL** 100LL, JET A NOTAM FILE GFK **L–14F**
RWY 09–27: H3900X60 (ASPH) S–14 MIRL **IAP**
RWY 09: Pole. **RWY 27:** PAPI(P2L)—GA 3.0° TCH 32′. Road.
AIRPORT REMARKS: Attended on call. Self svc 24 hr credit card fueling system avbl. For arpt attendance schedule call 701–628–2110/629–0345. Jet A fuel unavbl. Deer and birds on and invof arpt. Due to snow Nov–Mar, call 701–628–2110 or 629–0345 to check on rwy condition prior to use. Loose gravel in the refuel area. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 09–27 and PAPI Rwy 27—CTAF.
WEATHER DATA SOURCES: AWOS–3 121.1 (701) 628–1737.
COMMUNICATIONS: CTAF 122.9
MINNEAPOLIS CENTER APP/DEP CON 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 074° 54.0 NM to fld. 2372/12E. **HIWAS.**



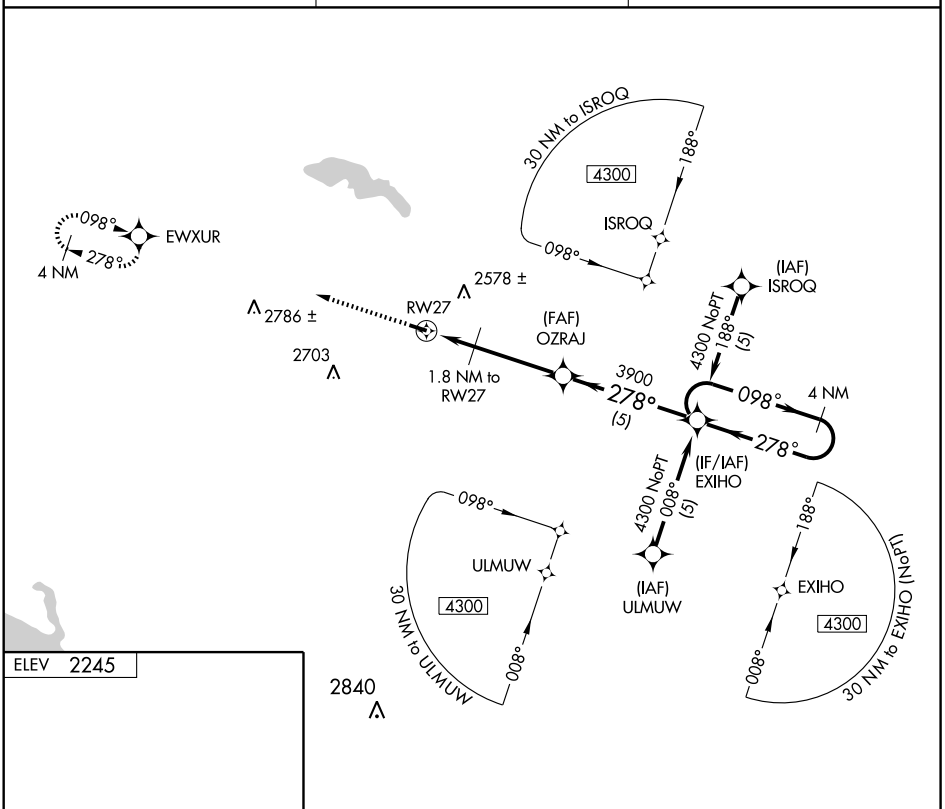
APP CRS	Rwy ldg	3900
278°	TDZE	2244
	Apt Elev	2245

RNAV (GPS) RWY 27
STANLEY MUNI (Ø8D)

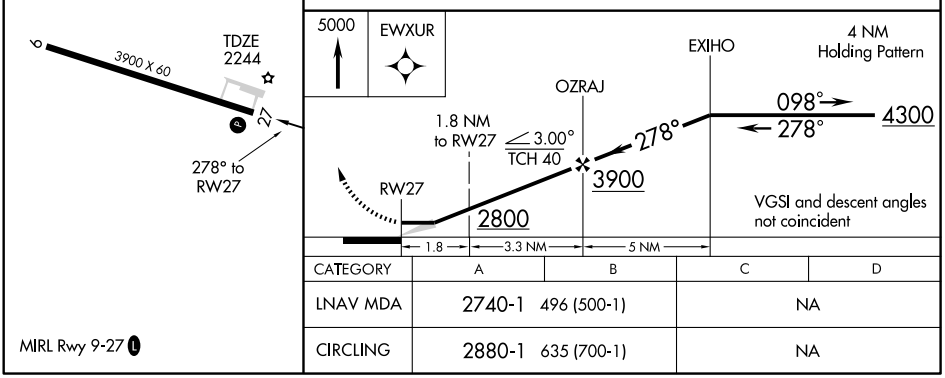
NA Use Minot altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 5000 direct EWXUR WP and hold.

AWOS-3	MINNEAPOLIS CENTER	CTAF
121.1	127.6 279.6	122.9 L



ELEV 2245



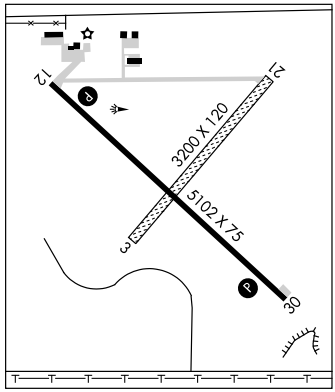
CATEGORY	A	B	C	D
LNAV MDA	2740-1	496 (500-1)	NA	
CIRCLING	2880-1	635 (700-1)	NA	

MIRL Rwy 9-27 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

TIOGA MUNI (D6Ø) 2 SE UTC−6(−5DT) N48°22.82′ W102°53.84′ **BILLINGS**
2271 B S4 **FUEL** 100LL, JET A OX 4 NOTAM FILE GFK **H–2H, L–13E, 14F**
RWY 12–30: H5102X75 (ASPH) S–25 MIRL 0.6% up SE **IAP**
RWY 12: PAPI(P2L)—GA 3.0° TCH 25′.
RWY 30: PAPI(P2L)—GA 3.0° TCH 25′. Road.
RWY 03–21: 3200X120 (TURF) 0.6% up SW
RWY 03: Road.
AIRPORT REMARKS: Attended dalgt hrs. Arpt svcs phone 701–664–2220 or city police 701–664–2514 after hrs on call. For fuel call city police 701–664–2514. Confirm snow removal on turf Rwy 03–21 after major storm 701–664–2220 or 701–641–3277. Deer and birds on and invof arpt. Rwy 03–21 marked with edge and end dalgt cone markers, twy and apron marked with reflectors. Rwy 03–21 surface uneven due to grass clumps especially S half. Rwy 03–21 intersection soft when wet. Rwy 12–30 MIRL preset low ints, to increase ints ACTIVATE PAPI Rwy 12 and Rwy 30—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.575 (701) 664–4490.
COMMUNICATIONS: CTAF 122.9
MINNEAPOLIS CENTER APP/DEP CON 127.6
RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 065° 35.0 NM to fld. 2372/12E. **HIWAS.**



TOMLINSON FLD (See NEW ROCKFORD)

TOWNER MUNI (D61) 1 NE UTC−6(−5DT) N48°21.50′ W100°23.52′ **TWIN CITIES**
1484 B NOTAM FILE GFK
RWY 16–34: 3200X100 (TURF) LIRL
RWY 16: Fence. **RWY 34:** Road.
RWY 03–21: 2900X150 (TURF)
RWY 03: Road.
AIRPORT REMARKS: Unattended. Confirm winter conditions after snowstorm with arpt manager 701–537–5137/3519. 3′ ditch SE end Rwy 16–34 and SW end Rwy 03–21. Rwy 03–21 has 5′ rwy visibility sight clearance violation. Rwy 03–21 marked 3′ wooden red markers on ends and intersection. Rwy 16–34 marked 3′ wooded red markers on ends and intersection. Rwy 16 +30′ pole 500′ from thld; 100′ right of extended centerline; apch ratio 16:1; +15′ bldg 150′ from thld 125′ left of extended centerline; apch ratio 10:1. ACTIVATE LIRL Rwy 16–34—CTAF.
COMMUNICATIONS: CTAF/UNICOM 122.8

• •

HELIPAD H1: H30X30 (CONC)

TRULSON FLD (See PLAZA)

TURTLE LAKE MUNI (91N) 1 SW UTC−6(−5DT) N47°30.57′ W100°54.96′ **TWIN CITIES**
1910 NOTAM FILE GFK
RWY 08–26: 3200X100 (TURF) LIRL
RWY 26: Trees.
AIRPORT REMARKS: Unattended. Confirm winter condition with arpt manager before use due to irregular snow removal, call 701–448–2253. Deer and wildlife on and in vicinity of arpt. Rwy 08–26 sfc grass soft when wet. Rwy 08 has 10′ dropoff 50′ out from thld. Rwy 08–26 during dalgt marked with yellow tires around lgts. ACTIVATE LIRL Rwy 08–26—CTAF.
COMMUNICATIONS: CTAF 122.8

VALLEY CITY N46°52.65′ W97°54.84′ NOTAM FILE GFK. **TWIN CITIES**
NDB (MHW) 382 VCY 305° 5.7 NM to Barnes Co Muni. **L–14G**

APP CRS	Rwy ldg	5102
303°	TDZE	2271
	Apt Elev	2271

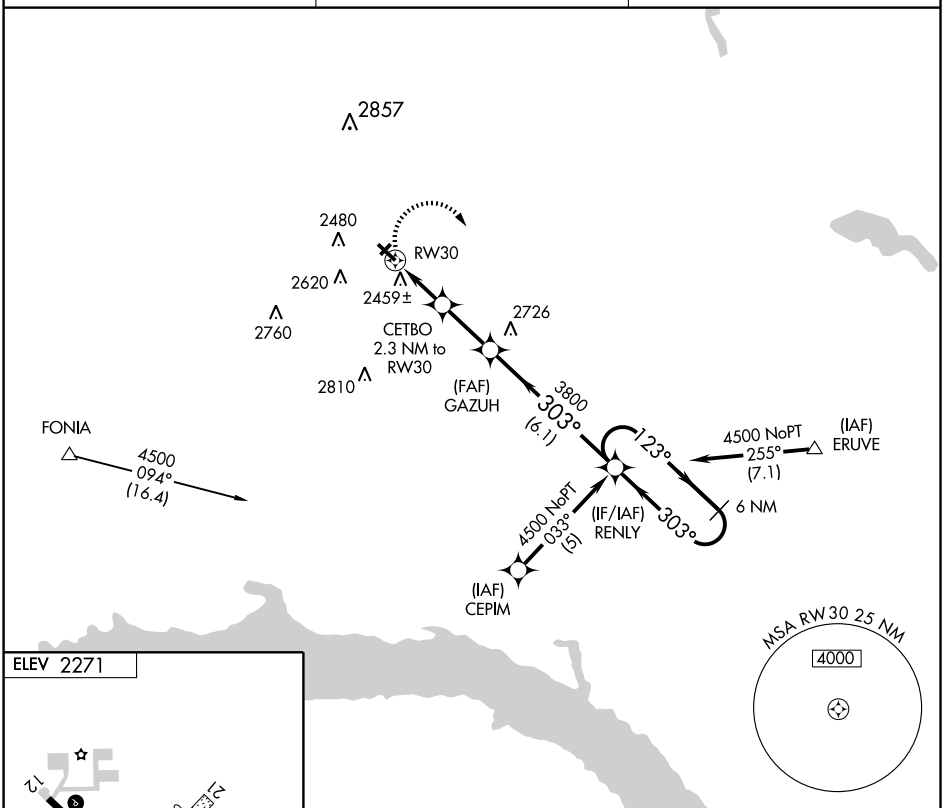
RNAV (GPS) RWY 30
TIOGA MUNI (D60)

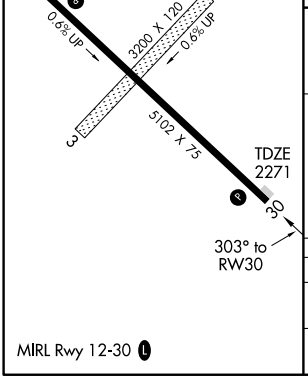
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all MDA 120 feet and increase LNAV Cat C and D visibility ¼ mile; Circling Cat C and D visibility ½ mile.

NA

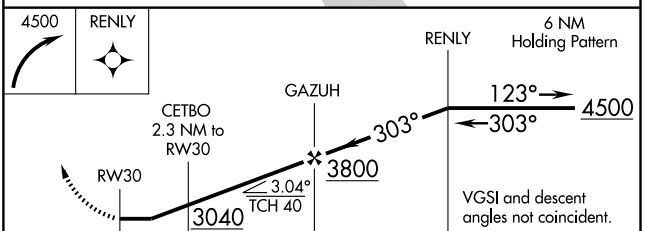
MISSED APPROACH: Climbing right turn to 4500 direct RENLY and hold.

AWOS-3	MINNEAPOLIS CENTER	CTAF
118.575	127.6 279.6	122.9 L





MIRL Rwy 12-30 L



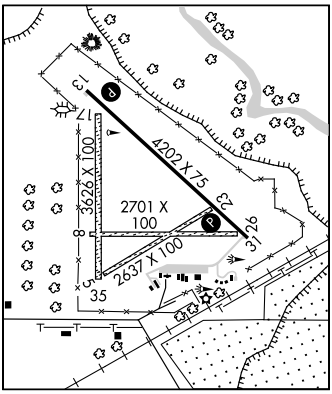
CATEGORY	A	B	C	D
LNAV MDA	2720-1 449 (500-1)		2720-1¼ 449 (500-1¼)	2720-1½ 449 (500-1½)
CIRCLING	2760-1 489 (500-1)	2840-1 569 (600-1)	2840-1½ 569 (600-1½)	2980-2¼ 709 (800-2¼)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

VALLEY CITY

BARNES CO MUNI (BAC) 1 NW UTC−6(−5DT) N46°56.47′ W98°01.08′ **TWIN CITIES**
1402 B S4 **FUEL** 100LL, JET A NOTAM FILE GFK **L–14G**
RWY 13–31: H4202X75 (ASPH) S–12.5 MIRL 0.4% up NW **IAP**
RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 31′. Hill.
RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 26′ Tree.
RWY 17–35: 3626X100 (TURF)
RWY 17: Hill. **RWY 35:** Tree.
RWY 08–26: 2701X100 (TURF)
RWY 08: Trees.
RWY 05–23: 2637X100 (TURF)
RWY 05: Pole.

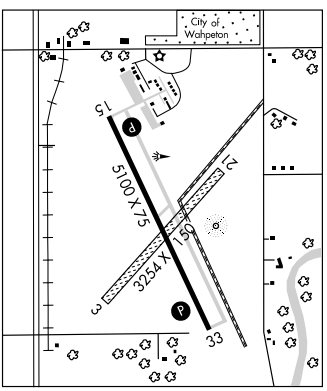


AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat and Sun on call. For arpt attendant after hours call 701–845–2587. Self svc 24 hr credit card fuel avbl. Rwys 5–23, 8–26 and 17–35 CLSD winter months due to lack of snow removal. Deer on and invof arpt. Confirm snow removal and winter conditions during Nov–Mar, call 701–845–2587. Rwy 05–23, Rwy 08–26 and Rwy 17–35 marked with dalgt boundary markers and nighttime reflector every 400′. Rwy 13–31 preset on medium ints to increase ints and ACTIVATE PAPI and REIL Rwy 13 and Rwy 31—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.725 (701) 845–9117.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 124.2
RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.
JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 079° 27.2 NM to fld. 1493/10E. **HIWAS.**
VALLEY CITY NDB (MHW) 382 VCY N46°52.65′ W97°54.84′ 305° 5.7 NM to fld. NOTAM FILE GFK.

VIKOR N48°02.13′ W98°48.23′ NOTAM FILE DVL. **TWIN CITIES**
NDB (LOM) 332 VK 311° 6.3 NM to Devils Lake Rgnl.

WAHPETON

HARRY STERN (BWP) 1 S UTC−6(−5DT) N46°14.66′ W96°36.43′ **TWIN CITIES**
968 B S4 **FUEL** 100LL, JET A NOTAM FILE GFK **H–2I, L–14H**
RWY 15–33: H5100X75 (ASPH) S–20 MIRL **IAP**
RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 24′. Tree.
RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 24′. Trees.
RWY 03–21: 3254X150 (TURF)
RWY 03: Trees. **RWY 21:** Tower.



AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat–Sun on call. For svc after hrs call arpt manager 701–642–5777/3232. Self svc credit card fuel system avbl 24 hrs. Rwy 03–21 CLOSED winter months due to lack of snow removal. Deer and birds on or invof arpt. 41′ Trees 1400′ from Rwy 31 thld 100′ left and right of centerline. Safety area cultivated uneven dirt, soft and wet. Rwy 03–21 marked with edge and corner dalgt metal markers painted red and white. MIRL Rwy 15–33 preset low ints, to increase intensity and ACTIVATE REIL Rwy 15 and Rwy 33 and PAPI Rwy 15 and Rwy 33—CTAF.
WEATHER DATA SOURCES: AWOS–3 127.875 (701) 642–9800.
COMMUNICATIONS: CTAF/UNICOM 123.0
FARGO RCO 122.425 (GRAND FORKS RADIO)
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 153° 32.2 NM to fld. 910/9E. **HIWAS.**
BRECKENRIDGE–WAHPETON NDB (MHW) 233 BWP N46°14.69′ W96°36.22′ at fld. NOTAM FILE GFK.

NDB VCY	APP CRS	Rwy ldg	4202
382	306°	TDZE	1393
		Apt Elev	1400

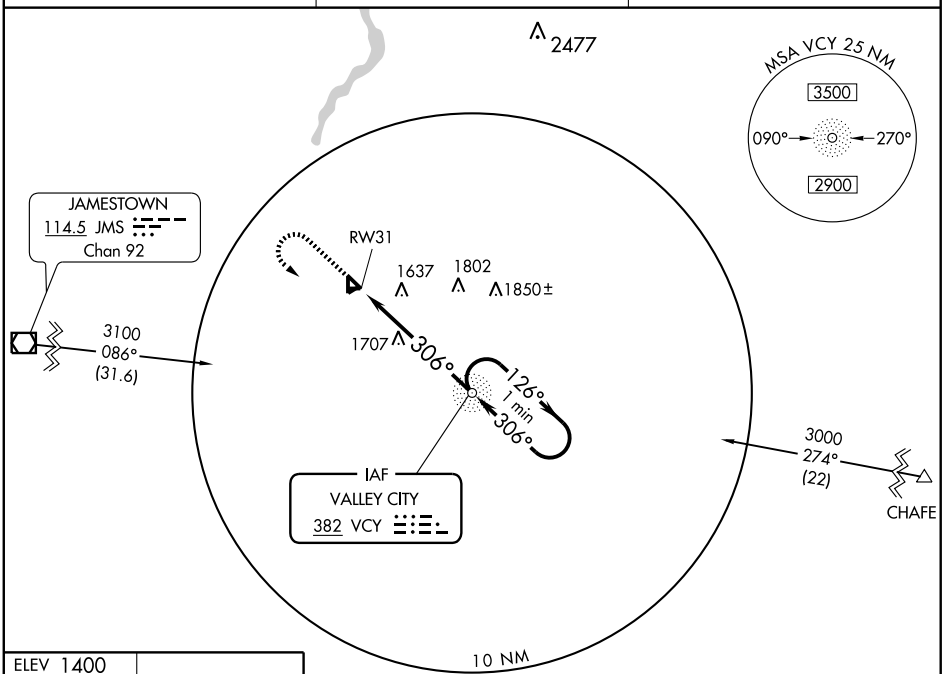
NDB or GPS RWY 31

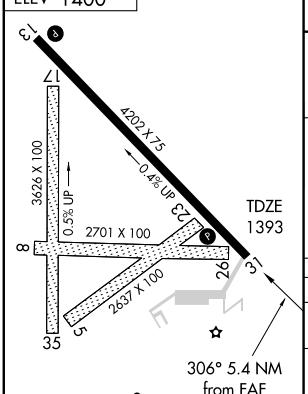
VALLEY CITY/BARNES COUNTY MUNI (BAC)

NA — Obtain local altimeter setting on CTAF; when not received use Jamestown altimeter setting.

MISSED APPROACH: Climb to 2500 then climbing left turn to 3000 direct VCY NDB and hold.

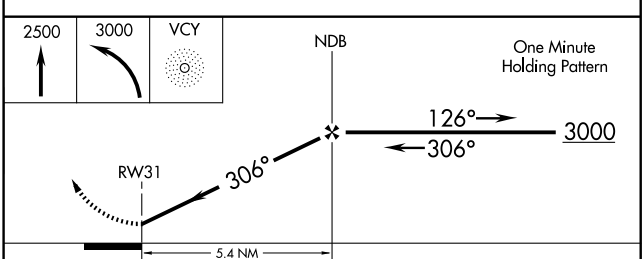
AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.725	124.2 270.3	122.8 (CTAF) L





MIRL Rwy 13-31 L
REIL Rwys 13 and 31 L

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



CATEGORY	A	B	C	D
S-31	2020-1	627 (700-1)	2020-1¾ 627 (700-1¾)	NA
CIRCLING	2020-1	620 (700-1)	2020-1¾ 620 (700-1¾)	NA
JAMESTOWN ALTIMETER SETTING MNIMUMS				
S-31	2120-1	727 (800-1)	2120-2 727 (800-2)	NA
CIRCLING	2120-1	720 (800-1)	2120-2 720 (800-2)	NA

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

RNAV (GPS) RWY 13

VALLEY CITY/BARNES COUNTY MUNI (BAC)

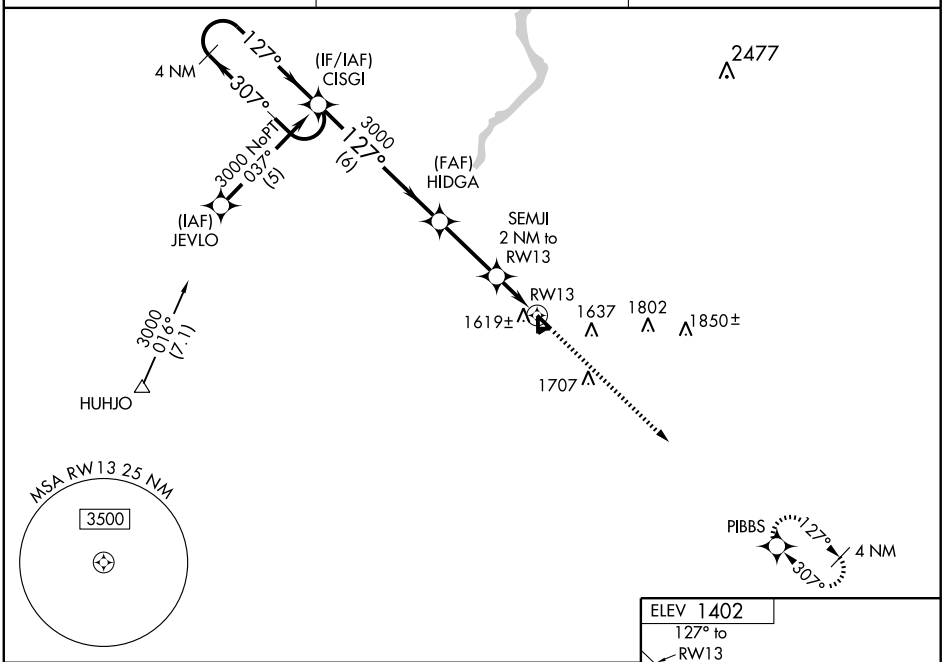
WAAS CH 70618 W13A	APP CRS 127°	Rwy ldg 4202 TDZE 1402 Apt Elev 1402

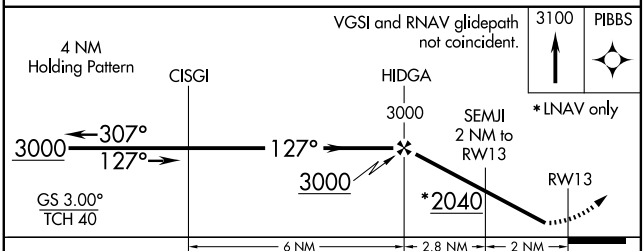
NA

Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 77 feet and all MDA 80 feet, increase LPV all Cats, LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile, and increase Circling Cat C visibility ½ mile.

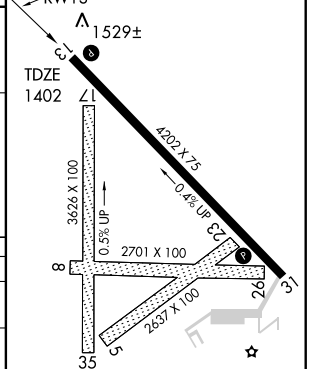
MISSED APPROACH: Climb to 3100 direct PIBBS and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.725	124.2 270.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1652-1 250 (300-1)			NA
LNAV/VNAV DA	1889-1¾ 487 (500-1¾)			NA
LNAV MDA	1880-1 478 (500-1)		1880-1¼ 478 (500-1¼)	NA
CIRCLING	1920-1 518 (600-1)	2000-1 598 (600-1)	2000-1½ 598 (600-1½)	NA



MIRL Rwy 13-31 L
REIL Rwys 13 and 31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

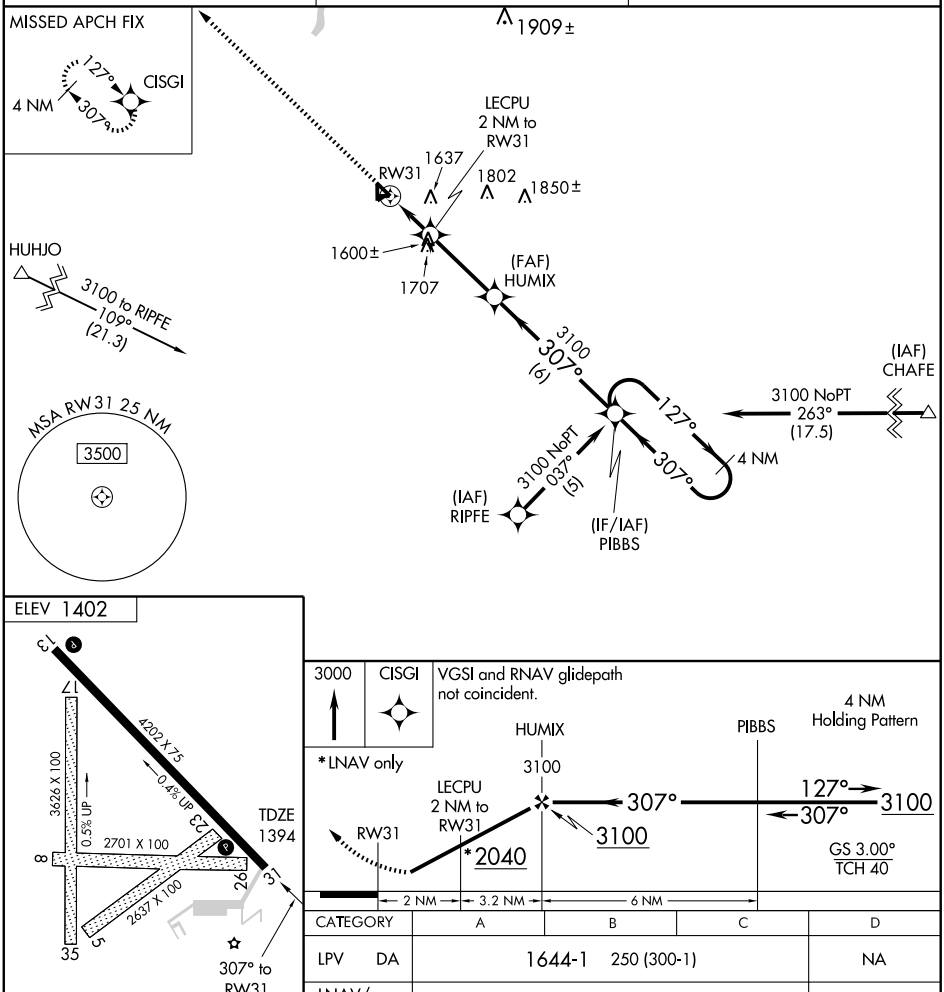
WAAS CH 65918 W31A	APP CRS 307°	Rwy ldg 4202 TDZE 1394 Apt Elev 1402

RNAV (GPS) RWY 31
VALLEY CITY/BARNES COUNTY MUNI (BAC)

Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase LPV DA 77 feet and LNAV/VNAV DA 227 feet, and all MDA 80 feet; increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ¾mile and increase Circling Cat C visibility ½ mile.

MISSED APPROACH: Climb to 3000 direct CISGI and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.725	124.2 270.3	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	1644-1 250 (300-1)			NA
LNAV/VNAV DA	1717-1¼ 323 (400-1¼)			NA
LNAV MDA	1900-1 506 (500-1)		1900-1½ 506 (500-1½)	NA
CIRCLING	1920-1 518 (600-1)	2000-1 598 (600-1)	2000-1½ 598 (600-1½)	NA

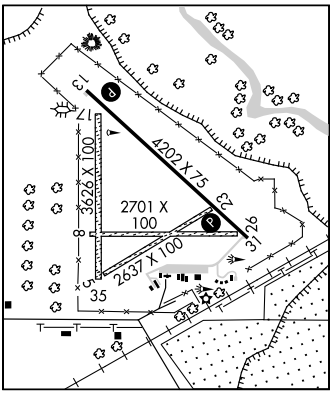
MIRL Rwy 13-31 L
REIL Rwys 13 and 31 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

VALLEY CITY

BARNES CO MUNI (BAC) 1 NW UTC−6(−5DT) N46°56.47′ W98°01.08′ **TWIN CITIES**
1402 B S4 **FUEL** 100LL, JET A NOTAM FILE GFK **L–14G**
RWY 13–31: H4202X75 (ASPH) S–12.5 MIRL 0.4% up NW **IAP**
RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 31′. Hill.
RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 26′ Tree.
RWY 17–35: 3626X100 (TURF)
RWY 17: Hill. **RWY 35:** Tree.
RWY 08–26: 2701X100 (TURF)
RWY 08: Trees.
RWY 05–23: 2637X100 (TURF)
RWY 05: Pole.

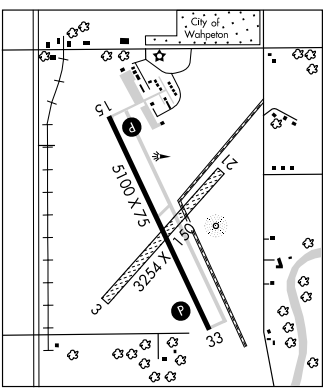


AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat and Sun on call. For arpt attendant after hours call 701–845–2587. Self svc 24 hr credit card fuel avbl. Rwys 5–23, 8–26 and 17–35 CLSD winter months due to lack of snow removal. Deer on and invof arpt. Confirm snow removal and winter conditions during Nov–Mar, call 701–845–2587. Rwy 05–23, Rwy 08–26 and Rwy 17–35 marked with dalgt boundary markers and nighttime reflector every 400′. Rwy 13–31 preset on medium ints to increase ints and ACTIVATE PAPI and REIL Rwy 13 and Rwy 31—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.725 (701) 845–9117.
COMMUNICATIONS: CTAF/UNICOM 122.8
Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 124.2
RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.
JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97′ W98°40.73′ 079° 27.2 NM to fld. 1493/10E. **HIWAS.**
VALLEY CITY NDB (MHW) 382 VCY N46°52.65′ W97°54.84′ 305° 5.7 NM to fld. NOTAM FILE GFK.

VIKOR N48°02.13′ W98°48.23′ NOTAM FILE DVL. **TWIN CITIES**
NDB (LOM) 332 VK 311° 6.3 NM to Devils Lake Rgnl.

WAHPETON

HARRY STERN (BWP) 1 S UTC−6(−5DT) N46°14.66′ W96°36.43′ **TWIN CITIES**
968 B S4 **FUEL** 100LL, JET A NOTAM FILE GFK **H–2I, L–14H**
RWY 15–33: H5100X75 (ASPH) S–20 MIRL **IAP**
RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 24′. Tree.
RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 24′. Trees.
RWY 03–21: 3254X150 (TURF)
RWY 03: Trees. **RWY 21:** Tower.



AIRPORT REMARKS: Attended Mon–Fri 1400–2300Z‡, Sat–Sun on call. For svc after hrs call arpt manager 701–642–5777/3232. Self svc credit card fuel system avbl 24 hrs. Rwy 03–21 CLOSED winter months due to lack of snow removal. Deer and birds on or invof arpt. 41′ Trees 1400′ from Rwy 31 thld 100′ left and right of centerline. Safety area cultivated uneven dirt, soft and wet. Rwy 03–21 marked with edge and corner dalgt metal markers painted red and white. MIRL Rwy 15–33 preset low ints, to increase intensity and ACTIVATE REIL Rwy 15 and Rwy 33 and PAPI Rwy 15 and Rwy 33—CTAF.
WEATHER DATA SOURCES: AWOS–3 127.875 (701) 642–9800.
COMMUNICATIONS: CTAF/UNICOM 123.0
FARGO RCO 122.425 (GRAND FORKS RADIO)
RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20′ W96°51.08′ 153° 32.2 NM to fld. 910/9E. **HIWAS.**
BRECKENRIDGE–WAHPETON NDB (MHW) 233 BWP N46°14.69′ W96°36.22′ at fld. NOTAM FILE GFK.

NDB BWP	APP CRS	Rwy ldg	5100
233	342°	TDZE	967
		Apt Elev	968

NDB RWY 33

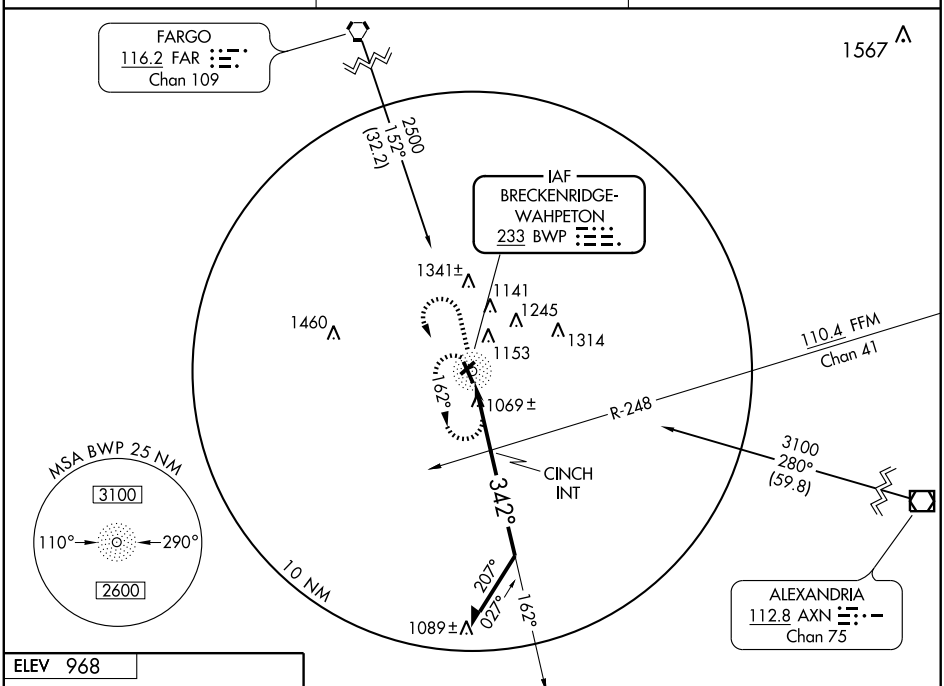
WAHPETON/HARRY STERN (BWP)

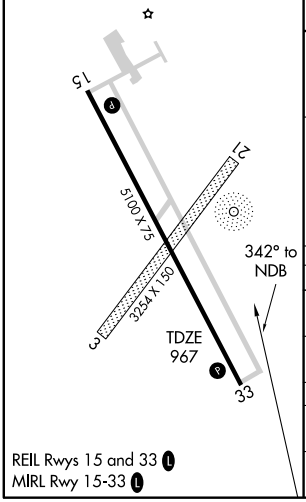
If local altimeter setting not received, use Fergus Falls, MN altimeter setting and increase all MDAs 80 feet.

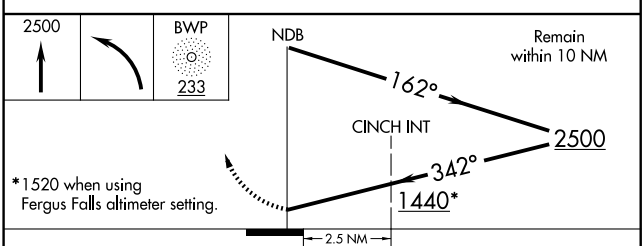
NA

MISSED APPROACH: Climb to 2500 then left turn direct BWP NDB and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
127.875	122.425	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-33	1440-1	473 (500-1)	1440-1¼ 473 (500-1¼)	1440-1½ 473 (500-1½)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)
CINCH FIX MINIMUMS				
S-33	1380-1	413 (500-1)	1380-1¼	413 (500-1¼)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	5100
151°	TDZE	968
	Apt Elev	968

RNAV (GPS) RWY 15

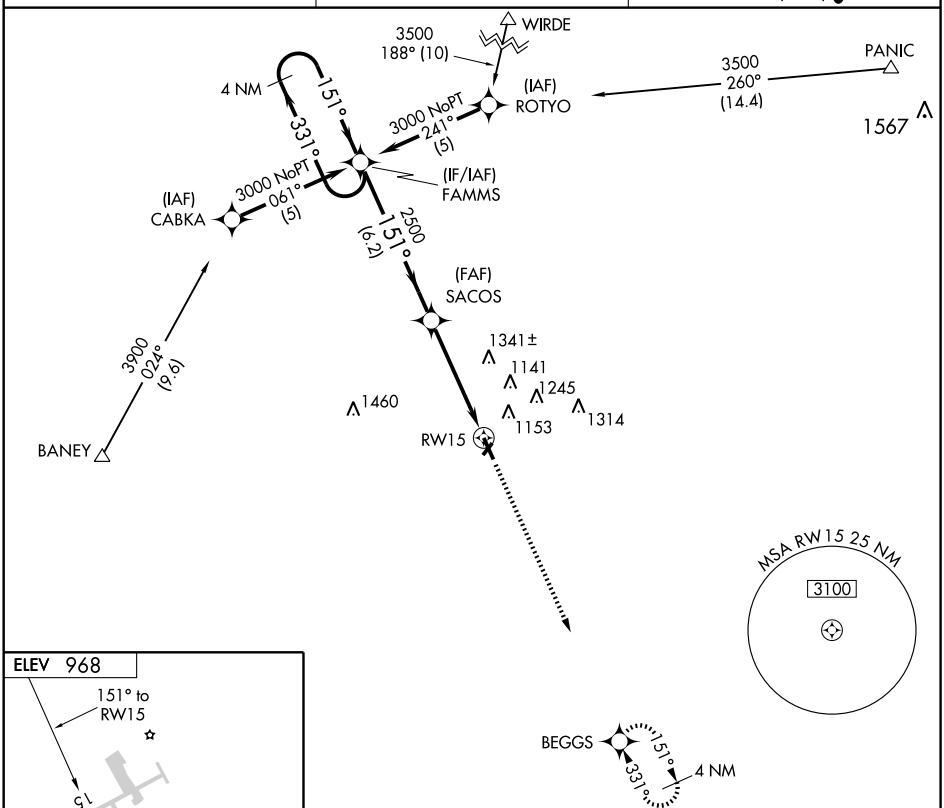
WAHPETON/ HARRY STERN (BWP)

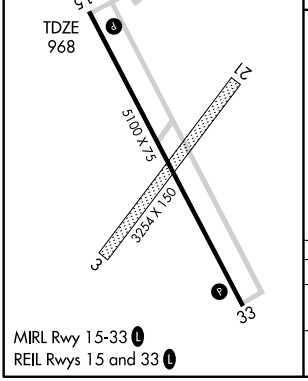
NA

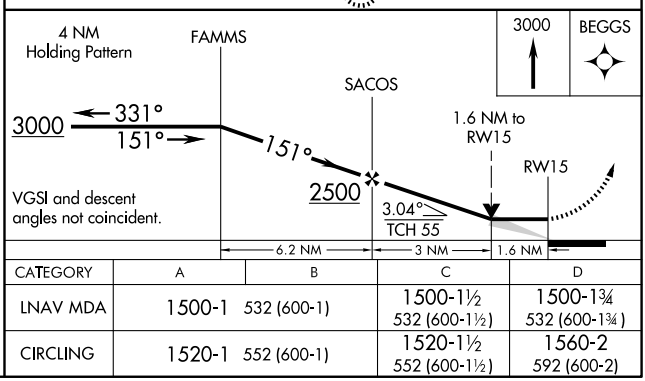
DME/DME RNP-0.3 NA. Circling to Rwy 3/21 NA at night.
If local altimeter setting not received, use Fergus Falls, MN altimeter setting and increase all MDAs 80 feet.
VDP NA when using Fergus Falls, MN altimeter setting.

MISSED APPROACH: Climb to 3000 direct BEGGS and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
127.875	122.425	123.0 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1500-1 532 (600-1)		1500-1½ 532 (600-1½)	1500-1¾ 532 (600-1¾)
CIRCLING	1520-1 552 (600-1)		1520-1½ 552 (600-1½)	1560-2 592 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

APP CRS	Rwy ldg	5100
331°	TDZE	967
	Apt Elev	968

RNAV (GPS) RWY 33

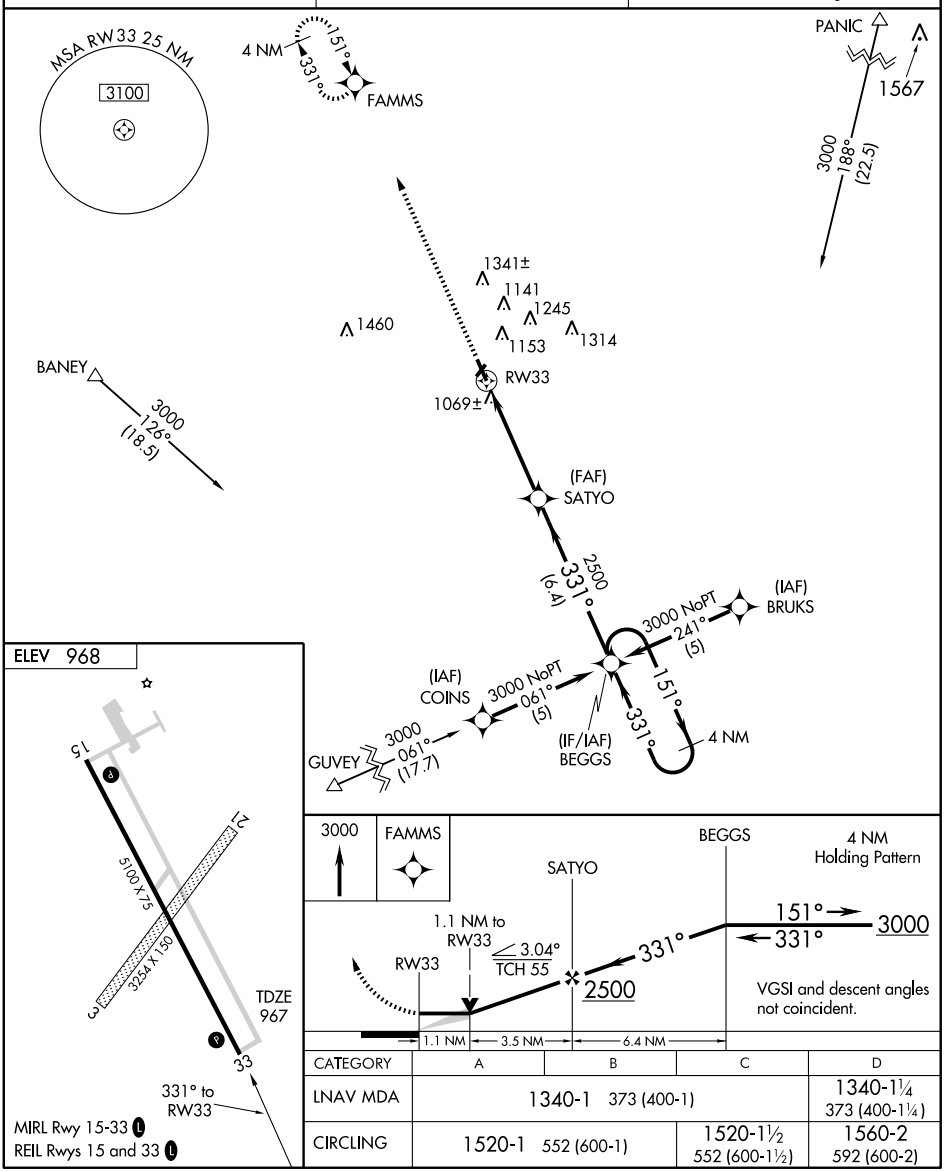
WAHPETON/HARRY STERN (BWP)

NA

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fergus Falls, MN altimeter setting and increase all MDA 80 feet and LNAV Cat C/D visibility ¼ mile.
VDP NA when using Fergus Falls, MN altimeter setting.

MISSED APPROACH: Climb to 3000 direct FAMMS and hold.

AWOS-3	GRAND FORKS RADIO	UNICOM
127.875	122.425	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1340-1 373 (400-1)			1340-1¼ 373 (400-1¼)
CIRCLING	1520-1 552 (600-1)		1520-1½ 552 (600-1½)	1560-2 592 (600-2)

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WALHALLA MUNI (96D) 1 NE UTC−6(−5DT) N48°56.43′ W97°54.17′ — TWIN CITIES L–14G IAP

953 B **FUEL** 100LL NOTAM FILE GFK

RWY 15–33: H3400X60 (ASPH) S–12.5 MIRL

RWY 15: PAPI(P2L)—GA 3.0° TCH 27′. P–line.

RWY 33: PAPI(P2L)—GA 3.0° TCH 27′. Road.

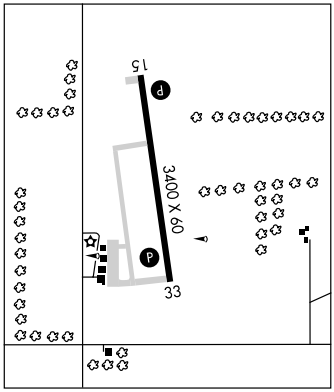
AIRPORT REMARKS: Attended Oct–Mar on call, Apr–Sep dawn–dusk. For attendant other hrs call 701–549–3220. For fuel and services call 701–549–3500/3786. To confirm snow removal with arpt manager prior to use 701–549–3500/3786. Deer and birds on or invof arpt. Rwy 15 +53′ trees 1650′ from rwy end 150′ left. Rwy 15 PAPI OTS indef. Parallel twy to Rwy 15–33 CLOSED indef. MIRL Rwy 15–33 and PAPI Rwy 15 and Rwy 33 opr dusk–0400Z‡, after 0400Z‡ ACTIVATE—CTAF.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 132.15

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15′ W97°07.03′ 269° 31.4 NM to fld. 800/9E.



WASHBURN MUNI (5C8) 4 N UTC−6(−5DT) N47°21.18′ W101°01.64′ — BILLINGS L–14F

1905 B NOTAM FILE GFK

RWY 08–26: H3700X60 (CONC) MIRL

RWY 08: PAPI(P2L)—GA 3.0° TCH 25′. Road. **RWY 26:** PAPI(P2L)—GA 3.0° TCH 25′.

RWY 17–35: 2235X120 (TURF)

RWY 17: Road.

AIRPORT REMARKS: Unattended. For svc call 701–462–3796. Rwy 17–35 CLOSED winter months due to lack of snow removal. Waterfowl, blackbirds, deer and antelope on and invof arpt. Rwy 17–35 has water ponding during spring thaw or after heavy rains on south half of rwy. Confirm winter conditions with arpt manager after major storm prior to use- snow removal irregular schedule. Rwy 17–35 marked with dalgt boundary markers, black/white cones. ACTIVATE MIRL Rwy 08–26 and PAPI Rwy 08 and Rwy 26—CTAF. Low ints not avbl.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 325° 38.4 NM to fld. 1841/12E. **HIWAS.**

WATFORD CITY MUNI (S25) 1 ESE UTC−6(−5DT) N47°47.80′ W103°15.31′ — BILLINGS L–13E, 14F IAP

2111 B **FUEL** 100LL NOTAM FILE GFK

RWY 12–30: H4402X75 (ASPH) S–12.5 MIRL 1.2% up SE

RWY 12: PAPI(P2L)–GA 3.0° TCH 27′ Road.

RWY 30: PAPI(P2L)–GA 3.0° TCH 29′ Hill.

RWY 18–36: 2401X150 (TURF)

RWY 36: P-lines.

AIRPORT REMARKS: Unattended. Self service 24 hr credit card fuel avbl. Rwy 18–36 CLOSED winter months (Oct–Apr) due to lack of snow removal. Deer and antelope on or invof arpt. After winter storms confirm arpt conditions with arpt manager or City Hall, call 701–444–2523 or 570–0530. MIRL Rwy 12–30 preset on low ints dusk–0400Z‡, to increase ints—CTAF, after 0400Z‡ ACTIVATE rotating bcn and PAPI Rwys 12 and Rwy 30—CTAF.

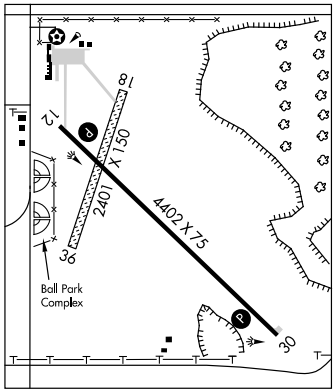
WEATHER DATA SOURCES: AWOS–3 118.125 (701) 842–4855.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ **SALT LAKE CITY CENTER APP/DEP CON** 126.85

RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 132° 34.0 NM to fld. 2372/12E. **HIWAS.**



WEST FARGO MUNI (See FARGO)

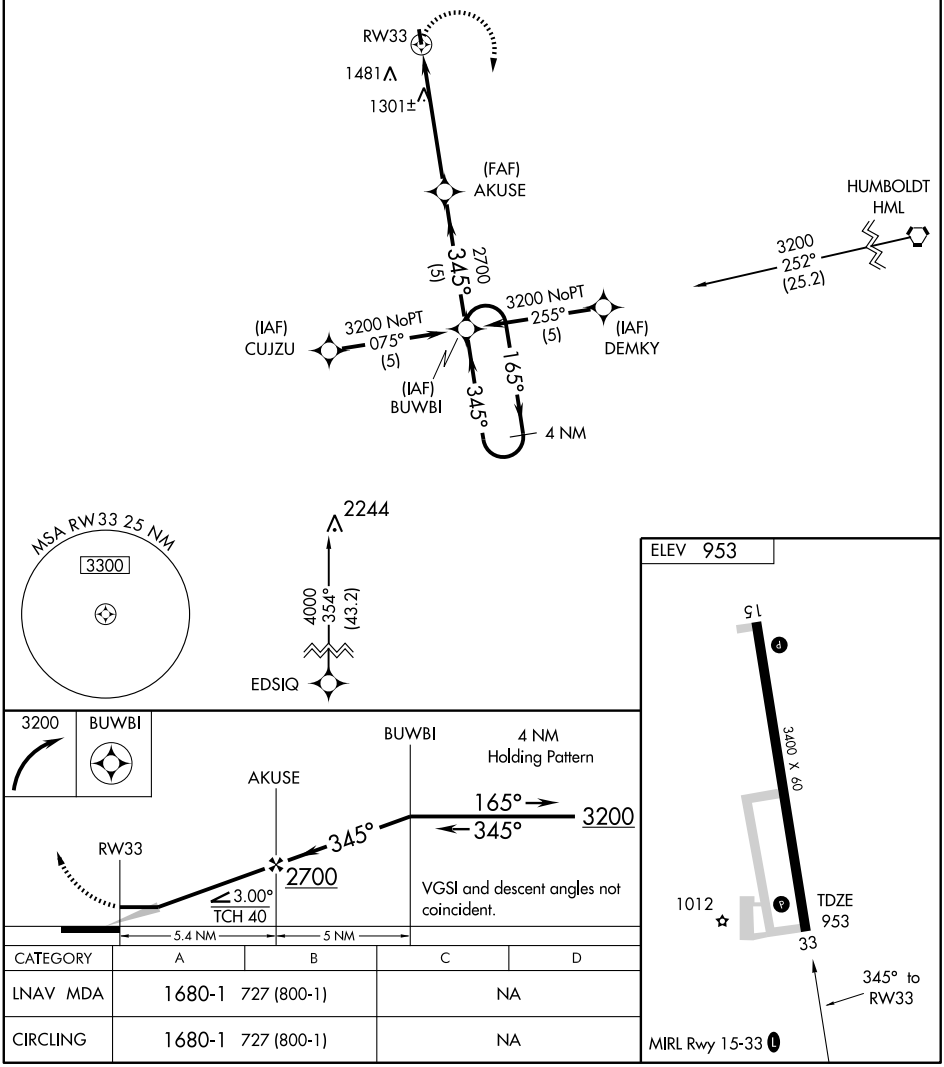
APP CRS	Rwy ldg	3400
345°	TDZE	953
	Apt Elev	953

RNAV (GPS) RWY 33
WALHALLA MUNI (96D)

NA Use Hallock Muni altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 3200 direct BUWBI WP and hold.

MINNEAPOLIS CENTER	CTAF
132.15 269.6	122.9 L



CATEGORY	A	B	C	D
LNAV MDA	1680-1 727 (800-1)		NA	
CIRCLING	1680-1 727 (800-1)		NA	

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WALHALLA MUNI (96D) 1 NE UTC−6(−5DT) N48°56.43′ W97°54.17′ — TWIN CITIES L–14G IAP

953 B **FUEL** 100LL NOTAM FILE GFK

RWY 15–33: H3400X60 (ASPH) S–12.5 MIRL

RWY 15: PAPI(P2L)—GA 3.0° TCH 27′. P–line.

RWY 33: PAPI(P2L)—GA 3.0° TCH 27′. Road.

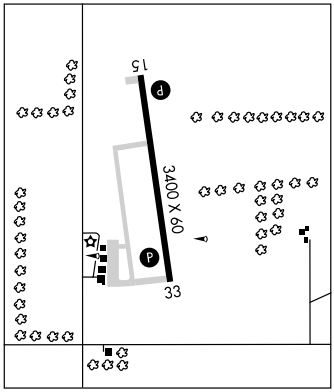
AIRPORT REMARKS: Attended Oct–Mar on call, Apr–Sep dawn–dusk. For attendant other hrs call 701–549–3220. For fuel and services call 701–549–3500/3786. To confirm snow removal with arpt manager prior to use 701–549–3500/3786. Deer and birds on or invof arpt. Rwy 15 +53′ trees 1650′ from rwy end 150′ left. Rwy 15 PAPI OTS indef. Parallel twy to Rwy 15–33 CLOSED indef. MIRL Rwy 15–33 and PAPI Rwy 15 and Rwy 33 opr dusk–0400Z‡, after 0400Z‡ ACTIVATE—CTAF.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 132.15

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15′ W97°07.03′ 269° 31.4 NM to fld. 800/9E.



WASHBURN MUNI (5C8) 4 N UTC−6(−5DT) N47°21.18′ W101°01.64′ — BILLINGS L–14F

1905 B NOTAM FILE GFK

RWY 08–26: H3700X60 (CONC) MIRL

RWY 08: PAPI(P2L)—GA 3.0° TCH 25′. Road. **RWY 26:** PAPI(P2L)—GA 3.0° TCH 25′.

RWY 17–35: 2235X120 (TURF)

RWY 17: Road.

AIRPORT REMARKS: Unattended. For svc call 701–462–3796. Rwy 17–35 CLOSED winter months due to lack of snow removal. Waterfowl, blackbirds, deer and antelope on and invof arpt. Rwy 17–35 has water ponding during spring thaw or after heavy rains on south half of rwy. Confirm winter conditions with arpt manager after major storm prior to use- snow removal irregular schedule. Rwy 17–35 marked with dalgt boundary markers, black/white cones. ACTIVATE MIRL Rwy 08–26 and PAPI Rwy 08 and Rwy 26—CTAF. Low ints not avbl.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71′ W100°39.92′ 325° 38.4 NM to fld. 1841/12E. **HIWAS.**

WATFORD CITY MUNI (S25) 1 ESE UTC−6(−5DT) N47°47.80′ W103°15.31′ — BILLINGS L–13E, 14F IAP

2111 B **FUEL** 100LL NOTAM FILE GFK

RWY 12–30: H4402X75 (ASPH) S–12.5 MIRL 1.2% up SE

RWY 12: PAPI(P2L)–GA 3.0° TCH 27′ Road.

RWY 30: PAPI(P2L)–GA 3.0° TCH 29′ Hill.

RWY 18–36: 2401X150 (TURF)

RWY 36: P-lines.

AIRPORT REMARKS: Unattended. Self service 24 hr credit card fuel avbl. Rwy 18–36 CLOSED winter months (Oct–Apr) due to lack of snow removal. Deer and antelope on or invof arpt. After winter storms confirm arpt conditions with arpt manager or City Hall, call 701–444–2523 or 570–0530. MIRL Rwy 12–30 preset on low ints dusk–0400Z‡, to increase ints—CTAF, after 0400Z‡ ACTIVATE rotating bcn and PAPI Rwys 12 and Rwy 30—CTAF.

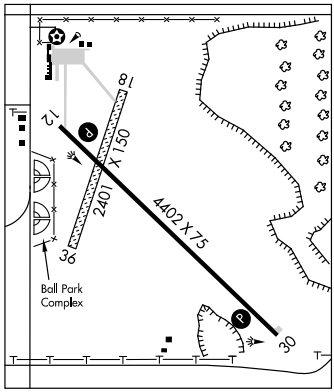
WEATHER DATA SOURCES: AWOS–3 118.125 (701) 842–4855.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ **SALT LAKE CITY CENTER APP/DEP CON** 126.85

RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 132° 34.0 NM to fld. 2372/12E. **HIWAS.**



WEST FARGO MUNI (See FARGO)

WAAS	APP CRS	Rwy ldg	4402
CH 70717	126°	TDZE	2090
W12A		Apt Elev	2111

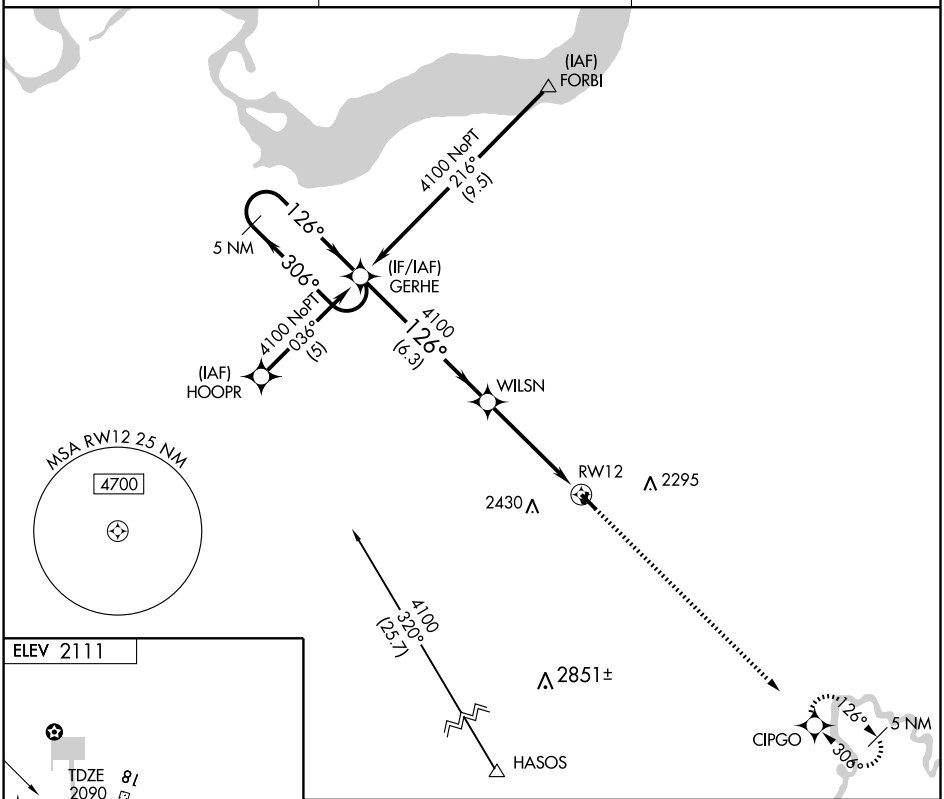
RNAV (GPS) RWY 12
WATFORD CITY MUNI (S25)

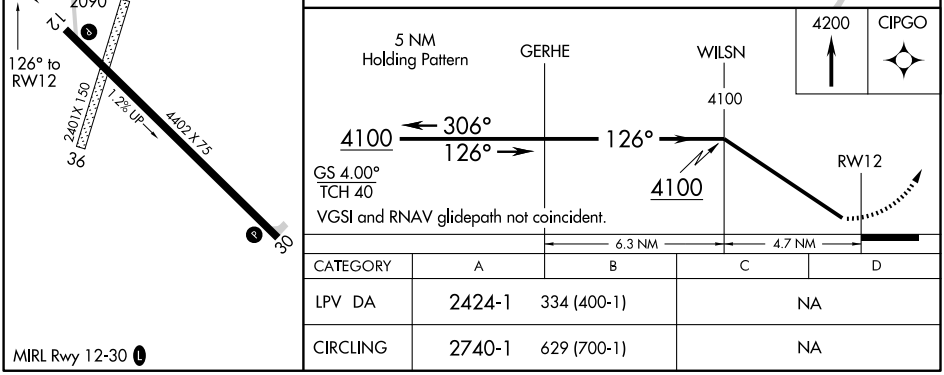
NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all DA 82 feet and all MDA 100 feet, increase LPV visibility all Cats ¼ mile. Circling requires descent on glidepath to CMDA.

MISSED APPROACH: Climb to 4200 direct CIPGO and hold.

AWOS-3	SALT LAKE CENTER	UNICOM
118.125	126.85 305.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2424-1	334 (400-1)	NA	
CIRCLING	2740-1	629 (700-1)	NA	

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS	APP CRS	Rwy ldg	4402
CH 69318	306°	TDZE	2111
W30A		Apt Elev	2111

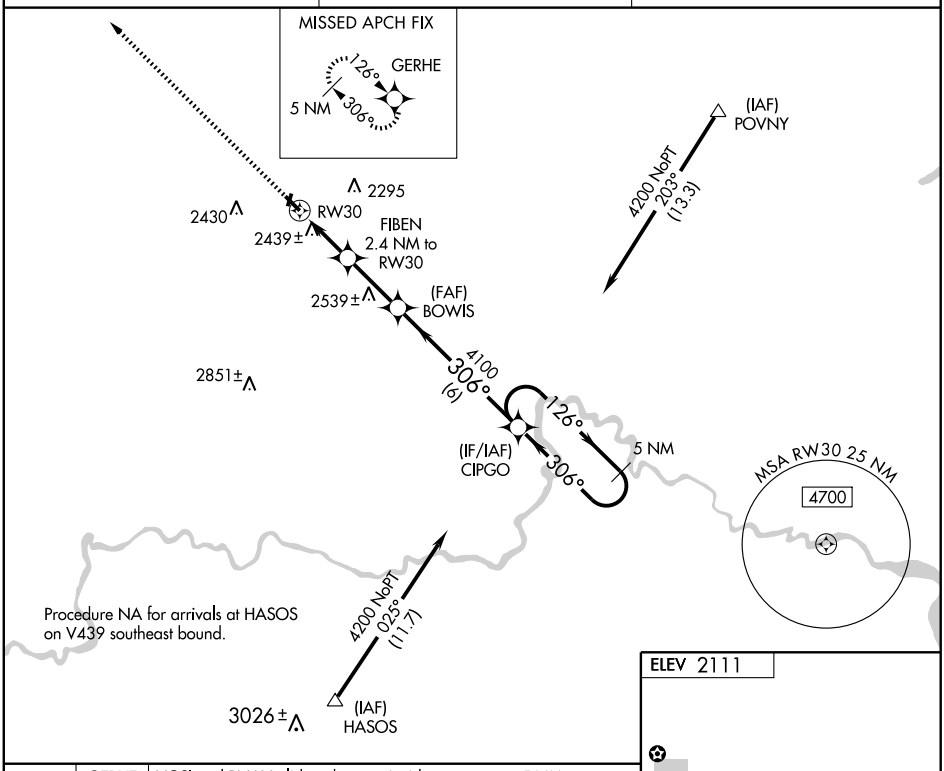
RNAV (GPS) RWY 30
WATFORD CITY MUNI (S25)

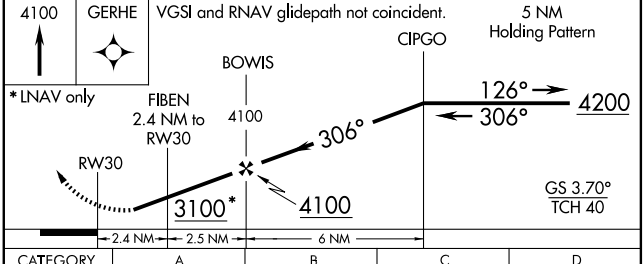
NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all DA 82 feet and all MDA 100 feet, increase LPV visibility all Cats ¼ mile.

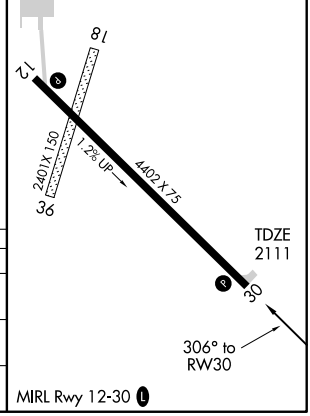
MISSED APPROACH: Climb to 4100 direct GERHE and hold.

AWOS-3	SALT LAKE CENTER	UNICOM
118.125	126.85 305.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2567-1¼ 456 (500-1¼)		NA	
LNAV MDA	2700-1 589 (600-1)		NA	
CIRCLING	2740-1 629 (700-1)		NA	



NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

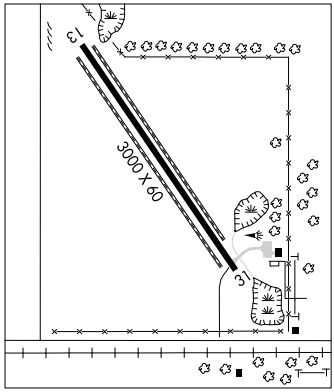
WESTHOPE MUNI (D64) 0 W UTC−6(−5DT) N48°54.78′ W101°02.02′ **BILLINGS**
1492 NOTAM FILE GFK **L–14F**

RWY 13–31: H3000X60 (ASPH) S–4 LIRL (NSTD)
RWY 13: Berm. **RWY 31:** Tree.

AIRPORT REMARKS: Unattended. Migratory birds on or near vicinity of airport. NSTD LIRL located 55′ from centerline. Confirm snow removal and winter conditions before use, call 701–245–6195/701–263–5399. +15′ road 100′ inbound Rwy 31 thld crossing rwy onto twy for arpt access to hangars. Rwy 31 +35′ p–line 800′ fm thld 175′ left, apch ratio 17:1, +30′ pole 800′ fm thld 175′ right, apch ratio 20:1. Rwy 13–31 surface soft during spring frost. –2 ft ditch 65′ L/R of Rwy 13–31 centerline parallel on both sides. Rwy 13 centerline stripe only. Rwy 31 centerline stripe only. Rwy 13–31 centerline stripe only. ACTIVATE LIRL Rwy 13–31—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MOT.
MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62′ W101°17.22′ 001° 40.5 NM to fld. 1691/13E. **HIWAS.**



WEYDAHL FLD (See KILLDEER)

WILLISTON N48°15.21′ W103°45.04′ NOTAM FILE ISN. **BILLINGS**
(L) VORTACW 116.3 ISN Chan 110 124° 6.3 NM to Sloulin Fld Intl. 2372/12E. **HIWAS.** **H–2H, L–13E**
RCO 123.6 (GRAND FORKS RADIO)

WILLISTON

SLOULIN FLD INTL (ISN) 2 N UTC−6(−5DT) N48°10.68′ W103°38.54′ **BILLINGS**
1982 B S4 **FUEL** 100LL, JET A OX 1 TPA–2782(800) AOE Class II, ARFF Index A **H–2H, L–13E**
NOTAM FILE ISN **IAP**

RWY 11–29: H6650X100 (ASPH–PFC) S–16, D–25 MIRL
1.3% up NW
RWY 11: REIL. PAPI(P4L)—GA 3.6° TCH 37′. P–line. Rgt tfc.
RWY 29: MALSR. PAPI(P4L)—GA 3.0° TCH 49′.

RWY 02–20: H3453X60 (ASPH) S–13 MIRL
RWY 02: REIL. PAPI(P2L)—GA 4.0° TCH 52′ Pole.
RWY 20: REIL. PAPI(P2L)—GA 4.0° TCH 32′. Rgt tfc.

RUNWAY DECLARED DISTANCE INFORMATION

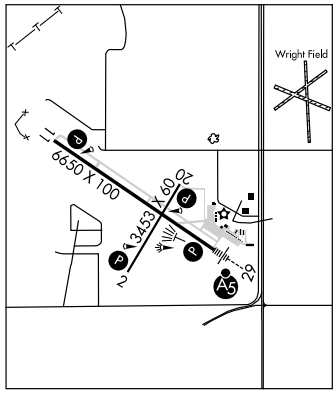
RWY 02:	TORA–3453	TODA–3453	ASDA–3453	LDA–3453
RWY 11:	TORA–6650	TODA–6650	ASDA–6650	LDA–6650
RWY 20:	TORA–3453	TODA–3453	ASDA–3453	LDA–3453
RWY 29:	TORA–6650	TODA–6650	ASDA–6650	LDA–6650

AIRPORT REMARKS: Attended Apr–Oct 1400–0300Z‡; Nov–Mar 1400–0100Z‡. For fuel after hrs call 701–577–3773/4208. Birds and deer on and invof arpt. 165′ powerline across the app end of Rwy 11 fm 3500′ to 3700′ fm rwy end. Personnel and equipment working all surfaces indef. 48 hrs PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 701–774–8594. Rwy 02–20 not avbl for air carrier ops with more than 30 passenger seats. MIRL Rwy 11–29 preset low ints dusk–dawn, to increase ints—CTAF. ACTIVATE MIRL Rwy 02–20, and REIL Rwy 02 and Rwy 11, MALSR Rwy 29 and PAPI Rwy 02, Rwy 20, Rwy 11, and Rwy 29—CTAF. Flight Notification Service (ADCUS) available. For U.S. Customs call 701–770–2460/2461/2849.

WEATHER DATA SOURCES: ASOS 125.92 (701) 774–3124. **HIWAS** 116.3 ISN.

COMMUNICATIONS: CTAF/UNICOM 122.8
WILLISTON RCO 123.6 (GRAND FORKS RADIO)
SALT LAKE CENTER APPD/DEP CON 126.85

RADIO AIDS TO NAVIGATION: NOTAM FILE ISN.
WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21′ W103°45.04′ 124° 6.3 NM to fld. 2372/12E. **HIWAS.**
YUSON NDB (LOM) 275 SF N48°07.09′ W103°30.69′ 292° 6.4 NM to fld. Unmonitored.
ILS 108.7 I–SFW Rwy 29 Class IT. LOM YUSON NDB. ILS unmonitored.



LOC I-SFW	APP CRS	Rwy ldg	6650
108.7	295°	TDZE	1930
		Apt Elev	1982

ILS or LOC RWY 29
WILLISTON/ SLOULIN FIELD INTL (ISN)

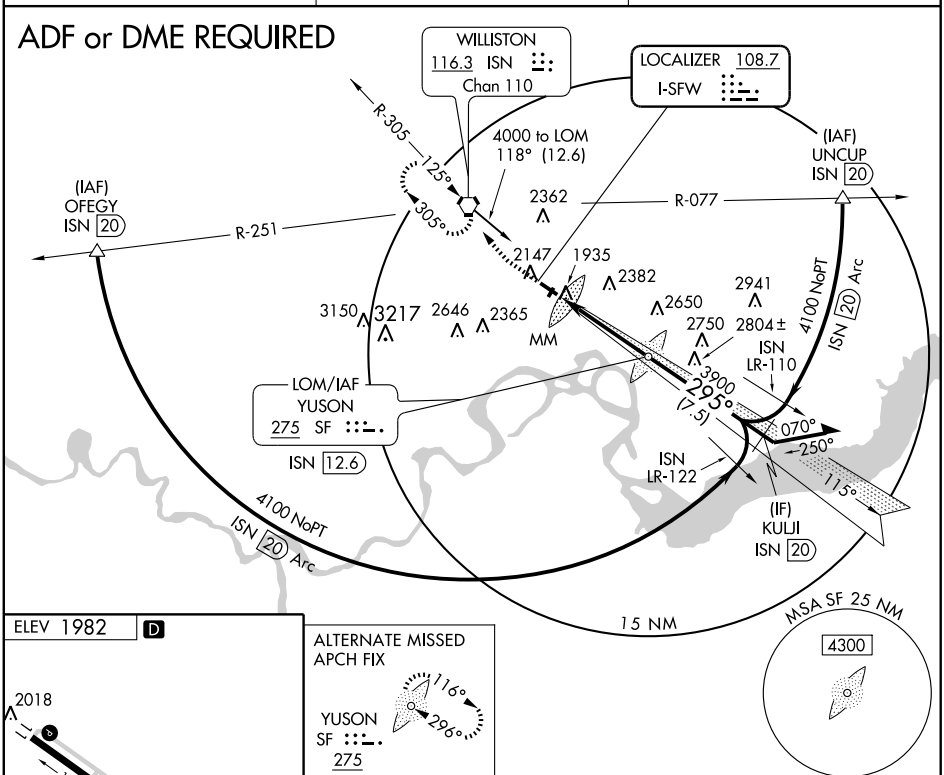
T A NA

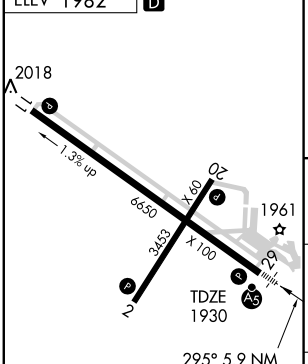
ADF or DME required. When local altimeter setting not received, use Sidney altimeter setting and increase all DA 84 feet and all MDA 100 feet, increase S-LOC and Circling Cat C and D visibility ¼ mile. For inoperative MALSR when using Sidney altimeter setting, increase S-ILS 29 all Cats visibility ½ mile.

MALSR A5

MISSED APPROACH: Climb to 2500 then climbing right turn to 4000 direct ISN VORTAC and hold.

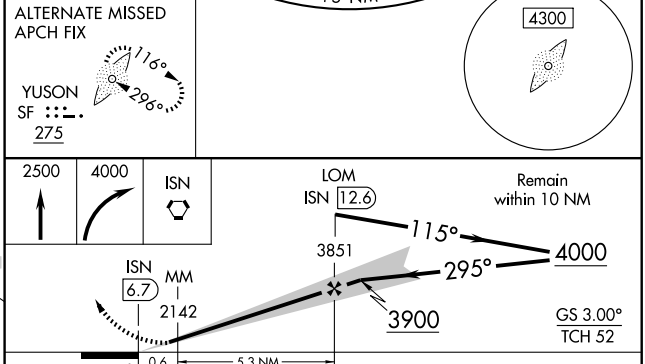
ASOS	SALT LAKE CITY CENTER	UNICOM
125.92	126.85 305.2	122.8 (CTAF) L





REIL Rwy 20
REIL Rwys 2 and 11 L
MIRL Rwys 2-20 and 11-29 L

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-ILS 29	2130-½ 200 (200-½)			
S-LOC 29	2420-½ 490 (500-½)		2420-¾ 490 (500-¾)	2420-1 490 (500-1)
CIRCLING	2560-1 578 (600-1)	2580-1 598 (600-1)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

LOM SF	APP CRS	Rwy ldg	6650
275	296°	TDZE	1930
		Apt Elev	1982

NDB RWY 29

WILLISTON/ SLOULIN FIELD INTL (ISN)

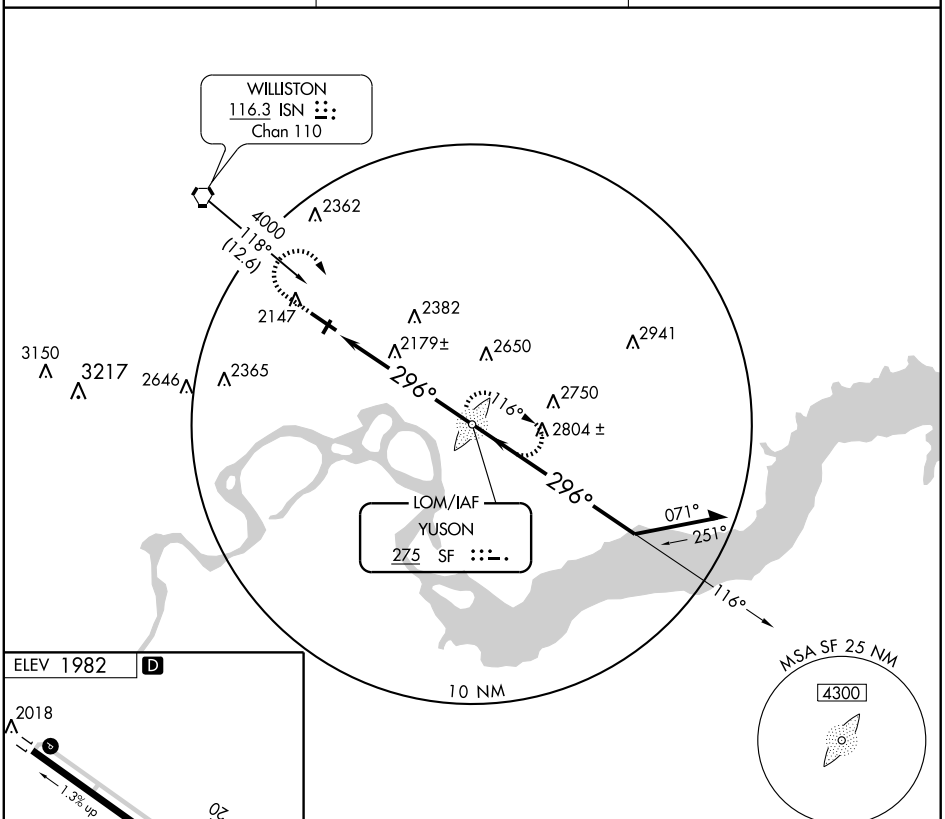
When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet, increase S-29 and Circling Cats C/D visibility ¼ mile.

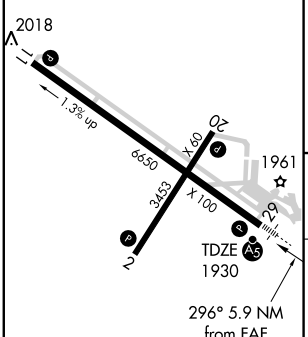
NA

MALSR

MISSED APPROACH: Climb to 3000 then climbing right turn to 4000 direct YUSON LOM and hold.

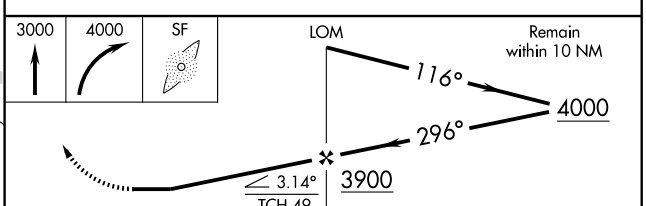
ASOS	SALT LAKE CITY CENTER	UNICOM
125.92	126.85 305.2	122.8 (CTAF) L





REIL Rwy 20
REIL Rwys 2 and 11 L
MIRL Rwys 2-20 and 11-29 L

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-29	2480-¾ 550 (500-¾)		2480-1 550 (500-1)	2480-1½ 550 (500-1½)
CIRCLING	2560-1 578 (600-2)	2580-1 598 (600-2)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

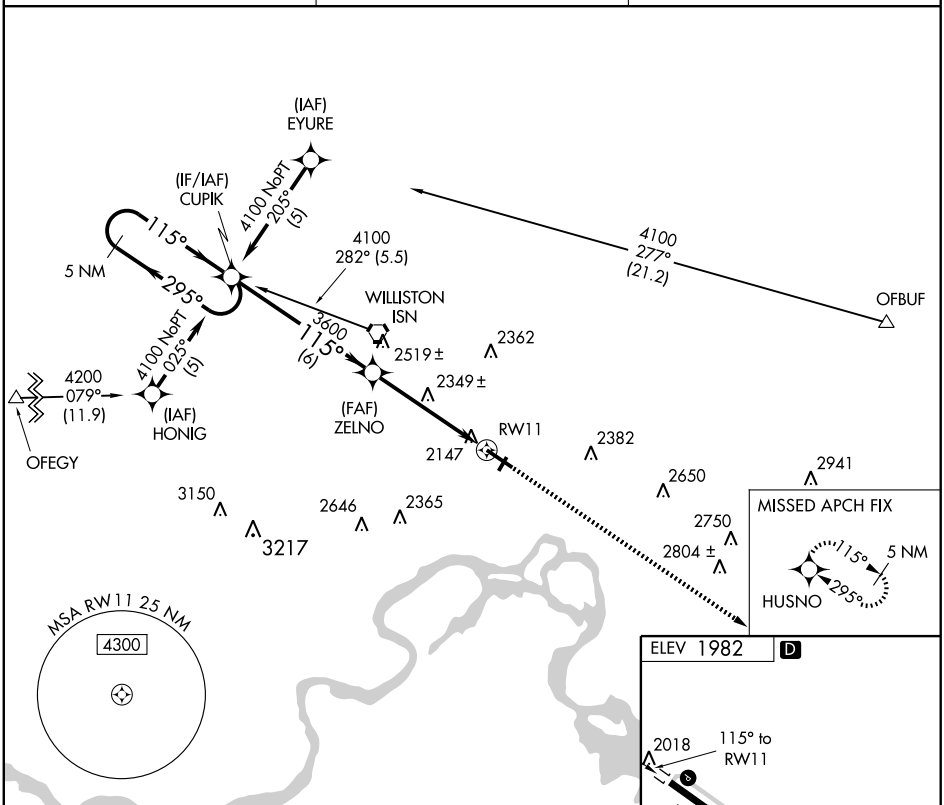
APP CRS	Rwy ldg	6650
115°	TDZE	1982
	Apt Elev	1982

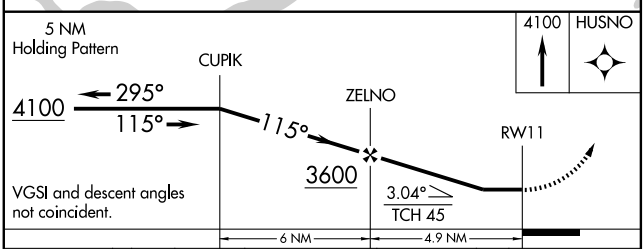
RNAV (GPS) RWY 11
WILLISTON/ SLOULIN FIELD INTL (ISN)

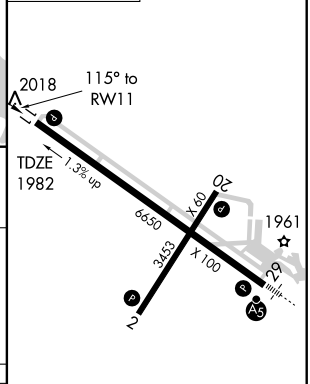
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet and all Cat C and Cat D visibilities ¼ mile.

MISSED APPROACH: Climb to 4100 direct HUSNO and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
125.92	126.85 305.2	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	2600-1 618 (700-1)		2600-1¾ 618 (700-1¾)	2600-2 618 (700-2)
CIRCLING	2600-1 618 (700-1)		2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

REIL Rwy 20
REIL Rwys 2 and 11 L
MIRL Rwys 2-20 and 11-29 L

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010

WAAS CH 73017 W29A	APP CRS 295°	Rwy ldg 6650 TDZE 1930 Apt Elev 1982

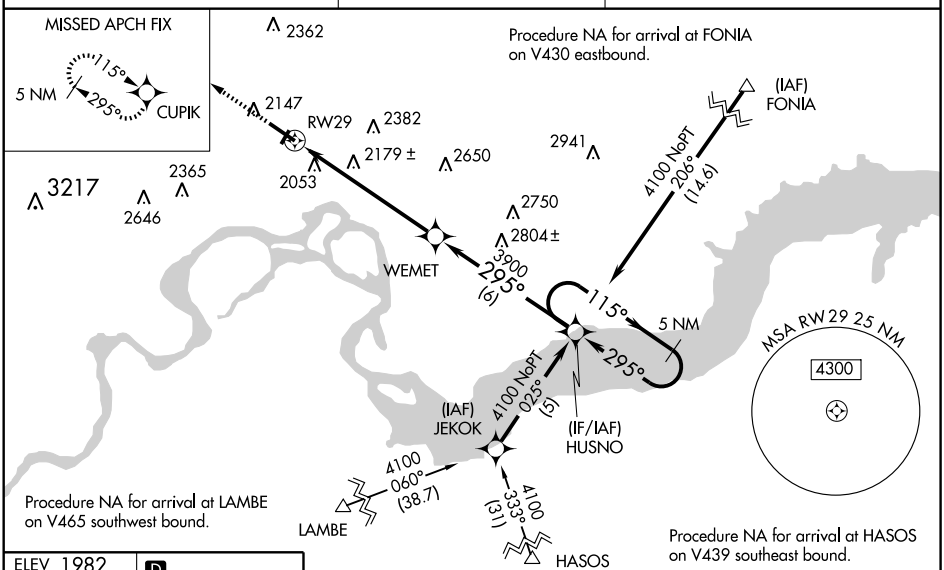
RNAV (GPS) RWY 29
WILLISTON/ SLOULIN FIELD INTL (ISN)

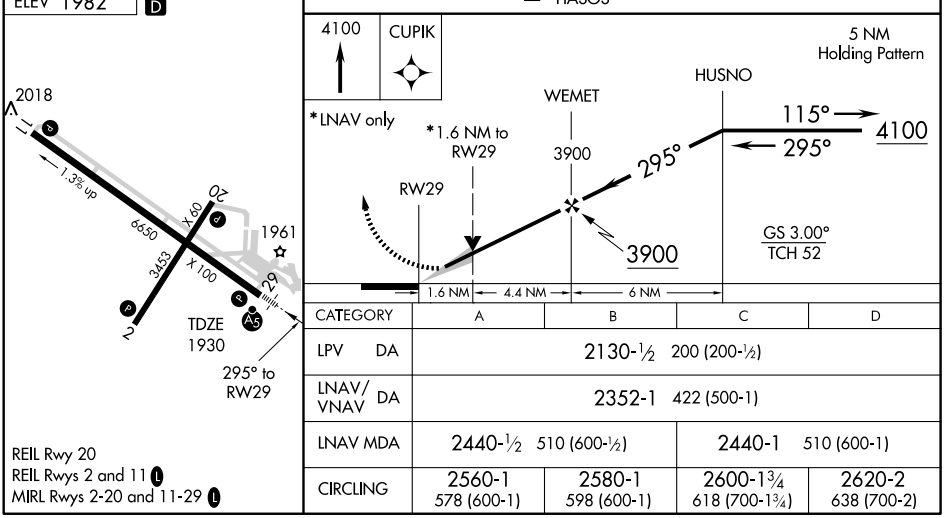
Baro-VNAV NA when using Sidney altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Sidney altimeter setting and increase all DA 84 feet and all MDA 100 feet, increase LNAV Cat C visibility ¼ mile and LNAV Cat D visibility ½ mile, increase LNAV/VNAV all Cats visibility ½ mile, and Circling Cat C and D visibility ¼ mile. VDP NA with Sidney altimeter setting. For inoperative MALSR when using Sidney altimeter setting, increase LPV all Cats visibility ½ mile.

MALSR A5

MISSED APPROACH: Climb to 4100 direct CUPIK and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
125.92	126.85 305.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2130-½ 200 (200-½)			
LNAV/VNAV DA	2352-1 422 (500-1)			
LNAV MDA	2440-½ 510 (600-½)		2440-1 510 (600-1)	
CIRCLING	2560-1 578 (600-1)	2580-1 598 (600-1)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

REIL Rwy 20
REIL Rwys 2 and 11 L
MIRL Rwys 2-20 and 11-29 L

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VORTAC ISN	APP CRS	Rwy ldg	6650
116.3	303°	TDZE	1930
Chan 110		Apt Elev	1982

VOR/DME RWY 29

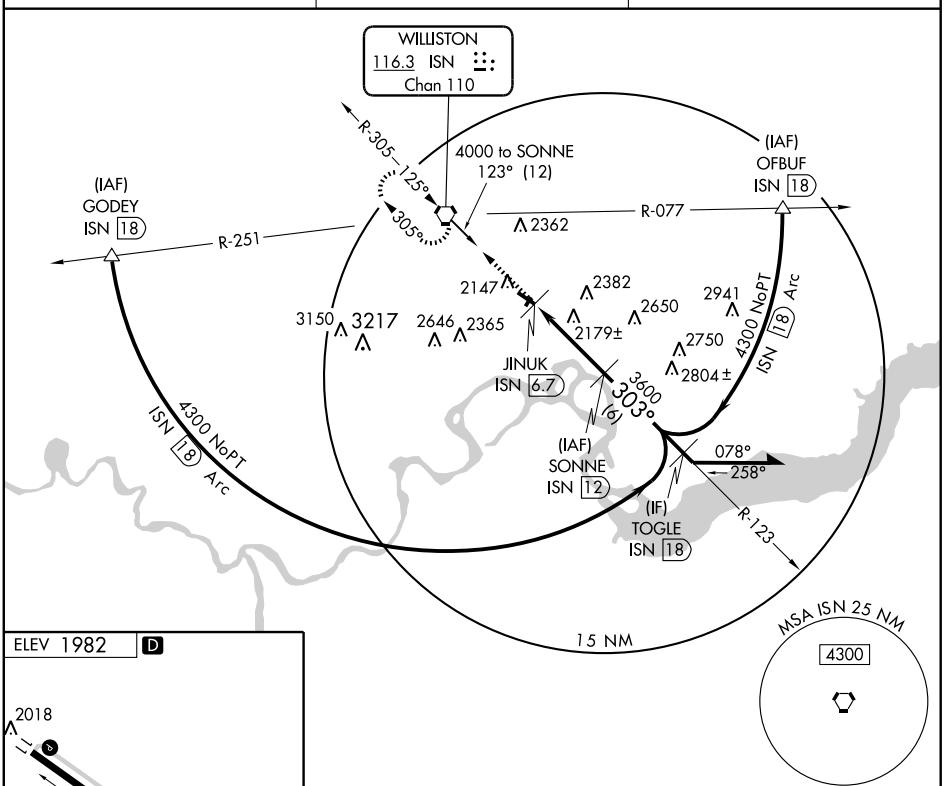
WILLISTON/ SLOULIN FIELD INTL (ISN)

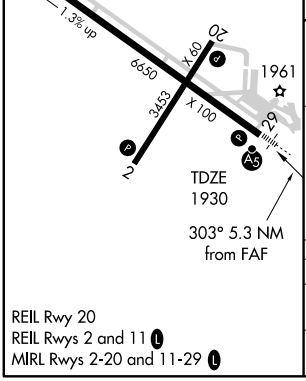
Inoperative table does not apply. VDP NA when using Sidney altimeter setting. When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet. Increase S-29 Cat C visibility ¼ mile and Cat D ½ mile, increase Circling Cats C/D visibility ¼ mile.

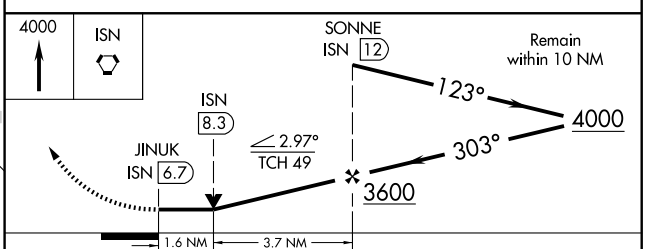
MALSR

MISSED APPROACH: Climb to 4000 direct ISN VORTAC and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
125.92	126.85 305.2	122.8 (CTAF) L







REIL Rwy 20
REIL Rwys 2 and 11 L
MIRL Rwys 2-20 and 11-29 L

CATEGORY	A	B	C	D
S-29	2440-1 510 (500-1)		2440-1½ 510 (500-1½)	
CIRCLING	2560-1 578 (600-1)	2580-1 598 (600-1)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

NC-1, 21 OCT 2010 to 18 NOV 2010
NC-1, 21 OCT 2010 to 18 NOV 2010

VOR RWY 11

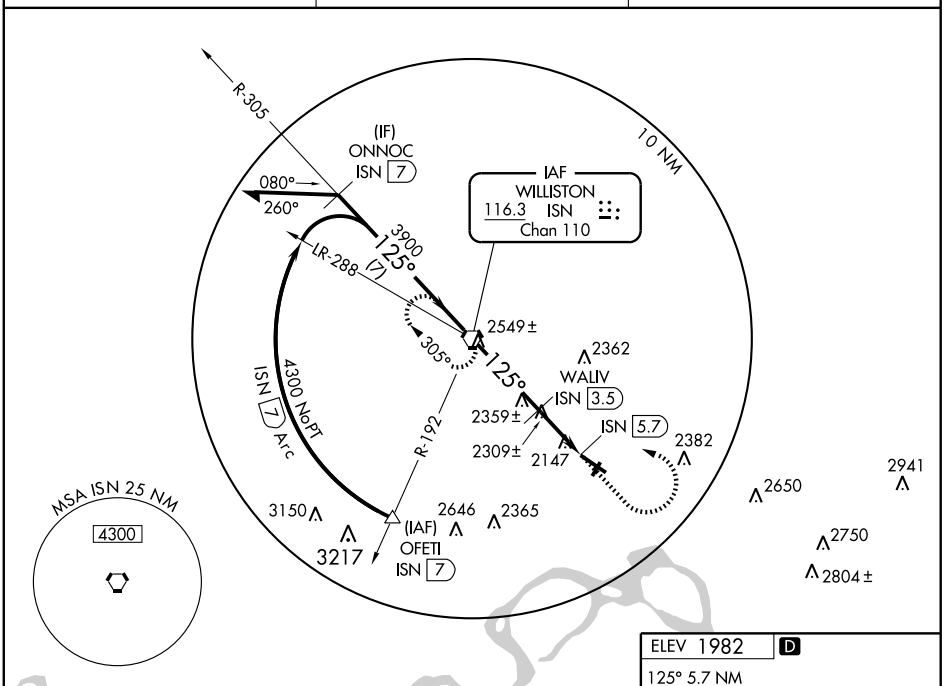
WILLISTON/ SLOULIN FIELD INTL (ISN)

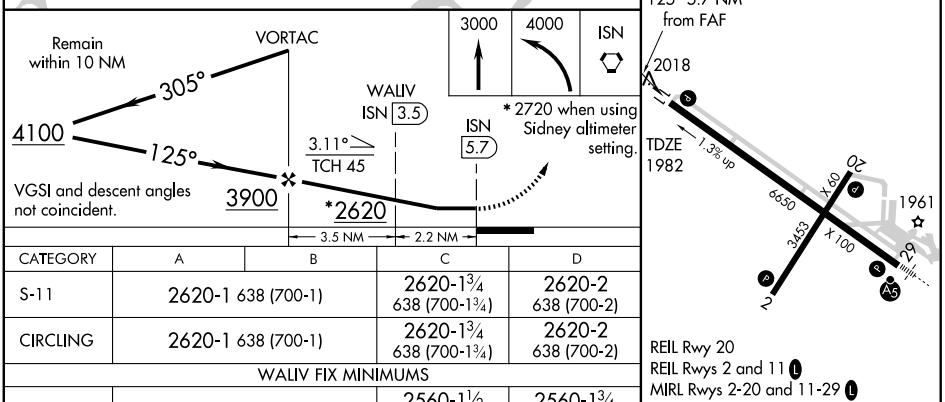
VORTAC ISN	APP CRS	Rwy ldg	6650
116.3	125°	TDZE	1982
Chan 110		Apt Elev	1982

Visibility reduction by helicopters NA. When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet, increase S-11 and Circling Cats C and D visibility ¼ mile, increase WALIV FIX minimums S-11 Cats C and D visibility ½ mile and Circling Cats C and D visibility ¼ mile.

MISSED APPROACH: Climb to 3000 then climbing left turn to 4000 direct ISN VORTAC and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
125.92	126.85 305.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-11	2620-1 638 (700-1)		2620-1¾ 638 (700-1¾)	2620-2 638 (700-2)
CIRCLING	2620-1 638 (700-1)		2620-1¾ 638 (700-1¾)	2620-2 638 (700-2)
WALIV FIX MINIMUMS				
S-11	2560-1 578 (600-1)		2560-1½ 578 (600-1½)	2560-1¾ 578 (600-1¾)
CIRCLING	2560-1 578 (600-2)	2580-1 598 (600-2)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

REIL Rwy 20
REIL Rwys 2 and 11 L
MIRL Rwys 2-20 and 11-29 L

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

NC-1, 21 OCT 2010 to 18 NOV 2010

NC-1, 21 OCT 2010 to 18 NOV 2010